



**TWV/35/12**

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

**TECHNICAL WORKING PARTY FOR VEGETABLES**

**Thirty-Fifth Session**  
**Salerno, Italy, June 25 to 29, 2001**

**WORKING PAPER ON REVISED DRAFT TEST GUIDELINES FOR SQUASH**  
*(Cucurbita pepo L.)*

*Document prepared by the experts from the Netherlands*

## I. Subject of these Guidelines

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:

200 g.

## III. Conduct of Tests

1. The minimum duration of tests should be two independent growing cycles.
2. The tests should normally be conducted at one place. If any important characteristics of the variety cannot be seen at that place, the variety may be tested at an additional place.
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.
4. Additional tests for special purposes may be established.

## IV. Methods and Observations

1. All observations determined by measurement or counting should be made on 10 plants or parts of 10 plants.
2. For the assessment of uniformity a population standard of 2 % for open pollinated varieties and of 1 % for hybrid varieties with an acceptance probability of 95 % should be applied. In the case of 20 plants, the maximum number of off-types allowed would be 1 for hybrid varieties whereas for open-pollinated varieties it would be 2.
3. All observations on the seedling should be made just before the development of the first leaf.
4. All observations on the leaf should be made on fully developed leaves after the first fruit is fully developed and should exclude the lower external leaves.
5. All observations on the ring of the corolla should be made when female and male flowers have appeared.
6. All observations on the young fruit should be made on fruits five days after flowering.

7. All observations on the color of the fruit should be made when the fruit is fully developed, before the change of color due to ripening. All other observations on the fruit should be made when the fruit is fully developed and later, unless otherwise indicated.

8. All observations on the ripe fruit should be made on physiological ripe fruits.

#### 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 classification and characteristics for grouping varieties:

**Note: A revised version of this table with more detailed characterization of the fruit types will be presented at this meeting.**

	Fruit: type	General shape	Example varieties	Note
	Pumpkin	From flattened globular to elliptical globular	Halloween, Small Sugar, Little Boo	1
	Miniature Pumpkin	Transverse elliptical	Jack Be Little	2
	Scallop	Flattened disc shaped with equatorial margin	Patty Pan, Scallopini	3
	Acorn	Top shaped with furrows	Table Queen	4
	Neck	Bottle shaped	Yellow Summer Crookneck, Early Prolific Straightneck	5
	Zucchini	From pear shaped to elliptical to cylindrical to club shaped	Beirut, Clarita, Romano, Ibis, Elite, Ambassador	6
	De Nice á fruit rond	Globular	De Nice á fruit rond, Redondo	7
	Delicata	Elliptical	Delicata	8
	Spaghetti Squash	Elliptical	Vegetable Spaghetti, Pasta	9
	Rondini	Globular	Little Gem	10
	Ölkürbis	Globular	Markant, Steierischer Ölkürbis	11
	Other			12

(a) Plant: growth habit (characteristic ..)

(b) Plant: branching (characteristic ..)

(c) Leaf blade: silver patches (characteristic ..)

(d) Fruit: main color (characteristic ..)

VI. Characteristics and Symbols

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

2. Notes (1 to 9), 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.

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

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>1. Seedling: shape of cotyledon</b>					
narrow elliptic				Bianchini	1
elliptic				Cora, Tivoli	2
broad elliptic				Goldi, Cinderella	3
circular				Yellow Crookneck	4
obovate					5
<b>2. 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>3. Seedling: shape of cotyledon in cross section</b>					
concave					1
straight				Sunburst	2
convex				Bianchini, Crookneck	Yellow 3
<b>4. Plant: growth habit</b>					
bush				Greyzini	1
semi-trailing				Twickers, Everest	Cinderella, 2
trailing				Long Green Trailing, Becky	3
<b>5 Plant: branching</b>					
absent				Goldi	1
present				Patty Green Tint	9

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>6. Plant: degree of branching</b>					
very weak				Cora	1
weak				Verdi, Karioka	3
medium				Gold Rush, Tivoli	5
strong				Yellow Crookneck, Jack O'Lantern, Blanche non coureuse 3	7
very strong				Patty Green Tint, Sweet Dumpling	9
<b>7. <u>Bush varieties only:</u> Plant: attitude of petiole (excluding lower external leaves)</b>					
erect				Yellow Crookneck, Blanche non coureuse 3	1
erect to semi-erect				Sardane	2
semi-erect				Arlesa	3
semi-erect to horizontal				Goldi	4
horizontal				Ambassador	5
<b>8. Stem: mottling</b>					
absent				Cinderella	1
present				Cora	9

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>9. Stem: color</b>					
completely green				Becky	1
partly green and partly yellow				Autumn Gold	2
<b>10. Stem: intensity of green color</b>					
very light				Maayan	1
light				Bianchini	3
medium				Cinderella	5
dark				Greyzini	7
very dark				Goldrush	9
<b>11. Stem: tendrils</b>					
absent or very rudimentary				Sylvana, Goldrush	1
well developed				Baby Bear, Greyzini	2
<b>12. Leaf blade: size</b>					
very small				Becky	1
small				Small Sugar	3
medium				Ambassador	5
large				Kriti	7
very large					9
<b>13. Leaf blade: incisions</b>					
absent or very shallow				Scallopini	1
shallow				Everest	3
medium				Jackpot	5
deep				Civac	7
very deep				Isotta	9
<b>14. Leaf blade: dentation of margin</b>					
absent or very weak				Scallopini	1

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
weak				Cinderella, Crookneck	Yellow 3
medium				Cora	5
strong				Spidy	7
very strong					9
<hr/>					
<b>15.</b>	<b>Leaf blade: intensity of green color of upper surface</b>				
	light			Ghazzi	3
	medium			Cora	5
	dark			Everest	7
<hr/>					
<b>16.</b>	<b>Leaf blade: silver patches</b>				
	absent			Scallopini, Black Forest	1
	present			Civac	9
<hr/>					
<b>17.</b>	<b>Leaf blade: relative area covered by silver patches</b>				
	very small				1
	small				3
	medium				5
	large				7
	very large				9
<hr/>					
<b>18.</b>	<b>Leaf blade: conspicuity of silver patches</b>				
	very weak			Everest, Cinderella	1
	weak			Top Kapi, Defender	3
	medium			Ambassador	5
	strong			Ritma	7
	very strong			Bianchini	9



English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>19. Petiole: length</b>					
short				Jack be Little, Karioka	3
medium				Goldi	5
long				Autumn Gold, Baikal	7
<b>20. Petiole: number of prickles</b>					
absent or very few				Kojac	1
few				Opaline	3
medium				Spidy	5
many				White Bush Scallop	7
very many				Yellow Summer Crookneck	9
<b>21. Female flower: ring at inner side of corolla</b>					
absent				Greyzini, Cinderella	1
present				Aurore	9
<b>22. Female flower: color of ring at inner side of corolla</b>					
green				Aurore, President, Early White Bush Scallop	1
yellow				Diamant, Patro	2
green and yellow				Pueblo	3
<b>23. 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

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>24. Male flower: ring at inner side of corolla</b>					
absent				Bianchini	1
present				Goldi	9
<b>25. Male flower: color of ring at inner side of corolla</b>					
green				Goldi, Austral, Belor	1
yellow				Patro, Zyzo, Afrodite	2
green and yellow				Green Gem, Ibis, Alice, Carmina	3
<b>26. Male flower: intensity of green color of ring at inner side of corolla</b>					
weak				Cora	3
medium				Verdi	5
strong				Goldi	7
<b>27. Male flower: length of pedicel</b>					
short					3
medium					5
long					7
<b>28. <u>Zucchini</u> only: Young fruit: ratio length/maximum diameter</b>					
very small				Ghazzi	1
small				Opal	3
medium				Cora	5
large				Carlotta	7
very large				Spidy	9

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>29. <u>Zucchini</u> only: Young fruit: shape in longitudinal section</b>					
pear shaped				Clarita	1
tapered elliptical				Top Kapi	2
elliptical				Table Dainty	3
cylindrical				Ibis, Ambassador	4
tapered cylindrical					5
<b>30. Young fruit: main color of skin (excluding color of ribs or grooves)</b>					
white				White Bush Scallop	1
cream				Tivoli	2
yellow				Goldi,	3
green				Opal, Elite, Romano	4
partly white and partly yellow					5
partly white and partly green					6
partly yellow and partly green				Zephyr, Sunburst	7
<b>31. Young fruit: intensity of yellow color of skin (as for 30)</b>					
very light					1
light					3
medium					5
dark					7
very dark					9

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>32. Young fruit: intensity of green color of skin (as for 30)</b>					
very light				Patty Green Tint, Clarita, Goya	1
very light to light				Karioka, Yasmina	2
light				Arlika	3
light to medium					4
medium				Baccara	5
medium to dark				Sylvana, Afrodite	6
dark				Arlesa, Sandra, Zefira	7
dark to very dark				Zidia	8
very dark				Carnaval, Corsair	9
<b>33. Fruit: shape in (*) (+) longitudinal section</b>					
disc shaped					1
transverse elliptical					2
transverse broad elliptical					3
circular					4
conical					5
broad elliptical					6
ovate					7
elliptical					8
cylindrical					9
pear shaped					10
bottle shaped					11
club shaped					12

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>34.1 <u>Scallop only:</u> Fruit: length</b>					
short				Bennings Green Tint	3
medium				Sunburst	5
long				Yellow Bush Scallop	7
<b>34.2 <u>Acorn only:</u> Fruit: length</b>					
short				Table Gold	3
medium				Swan White Acorn	5
long				Ebony Table Queen	7
<b>34.3 <u>Neck only:</u> Fruit: length</b>					
short				Wryneck	3
medium				Yellow Summer Crookneck	5
long				Sunbar	7
<b>34.4 <u>Zucchini only:</u> Fruit: length</b>					
very short				Jericho	1
short				Jedida	3
medium				Cora	5
long				Carlotta	7
very long				Altea	9
<b>35.1 <u>Scallop only:</u> Fruit: maximum diameter</b>					
small				Scallopini	3
medium				Yellow Bush Scallop	5
large				White Bush Scallop	7

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>35.2 <u>Acorn only:</u> Fruit: maximum diameter</b>					
small				Table Gold	3
medium				Table King	5
large				Swan White Acorn	7
<b>35.3 <u>Zucchini only:</u> Fruit: maximum diameter</b>					
small				Goldi	3
medium				Opal	5
large				Jericho, Spidi	7
<b>36.1 <u>Scallop only:</u> Fruit: ratio length/ maximum diameter</b>					
small				White Bush Scallop	3
medium				Scallopini	5
large				Sunburst	7
<b>36.2 <u>Acorn only:</u> Fruit: ratio length/ maximum diameter</b>					
small				Heart of Gold	3
medium				Table Gold	5
large				Table King	7
<b>36.3 <u>Zucchini only:</u> Fruit: ratio length/ maximum diameter</b>					
very small				Jericho	1
small				Jedida	3
medium				Cora	5
large				Carlotta	7
very large				Alterra????	9

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>37.1 <u>Pumpkin</u> only:</b>					
<b>Fruit: size</b>					
very small				Wee-B-Little	1
very small to small				Baby Bear	2
small				Peek-a-Boo	3
small to medium				Small Sugar	4
medium				Spirit	5
medium to large				Big Autumn	6
large				Ghost Rider	7
large to very large				Connecticut Field	8
very large				Howden	9
<b>37.2 <u>Rondini</u> only:</b>					
<b>Fruit: size</b>					
small				Pomme d'Or	3
medium				Rolet	5
large				Little Gem	7
<b>38. <u>Miniature pumpkin</u> only:</b>					
<b>Fruit: shape of base</b>					
straight				Sweetie Pie	1
concave				Jack Be Little	2
<b>39. <u>Scallop</u> only: Fruit: protrusion of equatorial margin</b>					
weak				Scallopini	3
medium				Sunburst	5
strong				White Bush Scallop	7

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>40. <u>Scallop only:</u> Fruit: position of equatorial margin</b>					
at the middle				Sunburst	1
towards stem end				Golden Bush Scallop	2
<b>41. <u>Scallop only:</u> Fruit: shape at stem end</b>					
straight				White Bush Scallop	1
convex				Yellow Bush Scallop	2
<b>42. <u>Scallop only:</u> Fruit: shape at blossom end</b>					
flat				Scallopini	1
indented				Yellow Bush Scallop	2
<b>43. <u>Acorn only:</u> Fruit: position of maximum diameter</b>					
at the middle				Ebony Table Queen	1
towards stem end				Swan White Acorn	2
<b>44. <u>Acorn only:</u> Fruit: shape at stem end</b>					
concave				Swan White Acorn	1
straight				Table King	2
convex				Ebony Table Queen	3
<b>45. <u>Neck only:</u> Fruit: length of neck</b>					
short				Wryneck	3
medium				Yellow Summer Crookneck	5
long				Sundance	7



English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>46. <u>Neck only:</u> Fruit: diameter of neck in relation to maximum diameter</b>					
small				Sundance	3
medium				Yellow Summer Crookneck	5
large				Sunbar	7
<b>47. <u>Neck only:</u> Fruit: curving of neck</b>					
absent				Early Prolific Straightneck	1
present				Yellow Summer Crookneck	9
<b>48. <u>Neck and Zucchini only:</u> Fruit: shape at blossom end</b>					
rounded					1
pointed					2
<b>49. Fruit: grooves</b>					
absent					1
present					9
<b>50. Fruit: depth of grooves</b>					
very shallow				Spooktacular	1
shallow				Connecticut Field	3
medium				Delicata, Table Queen	5
deep				Jack Be Little, Swan White Acorn	7
very deep				Sweet Dumpling, Heart of Gold	9

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>51. Fruit: ribs</b>					
absent					1
present					9
<b>52. Fruit: protrusion of ribs</b>					
very weak				Tivoli, Leda	1
weak				Ambassador	3
medium				Opal, Ibis	5
strong				Spidi	7
very strong				Tonda Padana, Mogngo Enrugado Mineiro	9
<b>53. Fruit: main color of skin (excluding color of mottles, patches, stripes and bands)</b>					
white				Pâtisson blanc panaché de Vert	1
cream				Early White Bush Scallop, Little Boo	2
yellow				Autumn Gold	3
green				Baby Bear, Ambassador	4
partly white and partly yellow					5
partly white and partly green					6
partly yellow and partly green				Sunburst, Zephyr	7
<b>54. Fruit: intensity of yellow color of skin (as for 53)</b>					
very light					1
light					3
medium					5
dark					7
very dark					9

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>55. Fruit: intensity of green color of skin (as for 53)</b>					
very light					1
light					3
medium					5
dark				Cora	7
very dark				Sardane, Baby Bear	9
<b>56. <u>Varieties with two main colors only:</u> Fruit: distribution of green color</b>					
green ring around blossom end				Sunburst	1
from blossom end one third green				Zephyr	2
from blossom end one half green					3

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>57. Fruit: stripes in grooves</b>					
absent				Baby Bear, Jack Be Little	1
present				Delicata, Pâtisson jaune panaché de vert, Heart of Gold	9
<b>58. Fruit: color of stripes in grooves</b>					
dark green				Sweet Dumpling	
yellow				Puccini	
<b>59. Fruit: color of ribs compared to main color of skin (as for 53)</b>					
same				Grey Zucchini	1
darker				De Nice à Fruit Rond, Orangetti	2
<b>60. Fruit: dots</b>					
absent				Sunburst	1
present				Gold Rush, Table Queen	9
<b>61. Fruit: size of main 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 Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>62. Fruit: secondary green color between ribs (excluding dots)</b>					
absent				Grey Zucchini, Small Sugar	1
present				Greyzini, Beatrice, Zubi, Tonda Padana, Steierischer Ölkürbis, Heart of Gold	9
<b>63. Fruit: intensity of secondary green color between ribs</b>					
very light					1
light					3
medium					5
dark					7
very dark				Heart of Gold	9
<b>64. Fruit: pattern of secondary green color between ribs</b>					
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 surface				Twickers, Badger Cross, Zubi	5
two colored bands covering the whole surface				Beatrice	6

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>65. Fruit: warts on skin</b>					
absent					1
present					9
<b>66. Fruit: number of warts on skin</b>					
very few				Scallopini	1
few					3
medium				Pâtisson verruqueux panaché	5
many				Yellow Summer crookneck	7
very many				Wryneck	9
<b>67. Fruit: size of flower scar</b>					
very small				Jack be Little	1
small				Goldi	3
medium				Spidi	5
large				Cinderella	7
very large				Howden	9
<b>68. Fruit: length of peduncle</b>					
very short				Arlesa	1
short				Clarita	3
medium				Cinderella	5
long				Tivoli	7
very long				Western Sunrise	9
<b>69. Fruit: color of peduncle</b>					
green				Ambassador	1
yellow					2
green and yellow				Autumn Gold	3

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>70. Fruit: intensity of green color of peduncle</b>					
light				Bianchini	3
medium				Sunburst	5
dark				Gold Rush	7
<b>71. Fruit: mottling of peduncle</b>					
absent				Sunburst	1
present				Elite	9
<b>72. Ripe fruit: main color of skin (as for 53)</b>					
white				Pâtisson blanc panaché de vert	1
whitish				White Bush Scallop	2
cream				Opal, Bianchini	3
yellow				Gold Rush	4
orange				Autumn Gold	5
<b>73. Ripe fruit: intensity of main color of skin (only yellow and orange):</b>					
light					3
medium					5
dark					7
<b>74. Ripe fruit: secondary color of skin (as for ..)</b>					
whitish					1
cream					2
yellow					3
orange					4
green					5

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>75. Ripe fruit: development of green hue (only white and cream)</b>					
absent				Jedida	1
present				Amalthee	9
<b>76. Ripe fruit: conspicuity of green hue (as for 75)</b>					
weak				Eskenderany	3
medium				Corona	5
strong				Amalthee	7
<b>77. Ripe fruit: color of flesh</b>					
cream				Elite	1
yellow				Sunburst, Spaghetti	Vegetable 2
orange				Autumn Gold	3
<b>78. Ripe fruit: Lignified rind</b>					
absent				Small Sugar, Table Queen, Vegetable Spaghetti	1
present				Scallopini, Elite, Little Gem, Yellow Summer Crookneck	9
<b>79. Ripe fruit: structure of flesh</b>					
not fibrous				Elite	1
fibrous				Vegetable Spaghetti	2
<b>80. Seed: size</b>					
very small				Jack be Little	1
small				Delicata	3
medium				Diamant	5
large				Italiaans ras	7
very large				Citrouille de Touraine	9



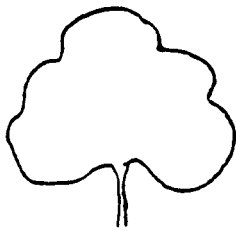
English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<b>81. Seed: shape</b>					
narrow elliptic				Caserta	3
elliptic				Elite	5
broad elliptic				Baby Boo	7
<b>82. Seed: hull</b>					
absent				Hongaars ras, Steierischer Ölkürbis	1
rudimentary				Baby Bear	5
present				Elite	9
<b>83. Seed: color of hull</b>					
whitish				Table Queen	1
cream				De Nice à Fruit Rond	2

English	français	Deutsch	español	Example Exemples Beispielssorten Variedades ejemplo	Varieties Note/ Nota
<hr/>					
<b>84.</b>	<b>Tolerance</b>	<b>to</b>			
	<b>Watermelon</b>				
	<b>Mosaïc Virus 2</b>				
	absent				1
	present				9
<hr/>					
<b>85.</b>	<b>Tolerance</b>	<b>to</b>			
	<b>Zucchini</b>	<b>Yellow</b>			
	<b>Mosaïc Virus</b>				
	absent				1
	present				9
<hr/>					
<b>86.</b>	<b>Tolerance</b>	<b>to</b>			
	<b>Cucumber</b>	<b>Mosaïc</b>			
	<b>Virus</b>				
	absent				1
	present				9
<hr/>					
<b>87.</b>	<b>Tolerance</b>	<b>to</b>			
	<b>Erysiphe</b>	<b>Mosaïc</b>			
	<b>Virus</b>				
	absent				1
	present				9
<hr/>					
<b>88.</b>	<b>Tolerance</b>	<b>to</b>			
	<b>Sphaerotheca</b>				
	<b>fuliginea</b>				
	absent				1
	present				9

VIII. Explanations on the Table of Characteristics/Explications du tableau  
des caractères/Erklärungen zu der Merkmalstabelle

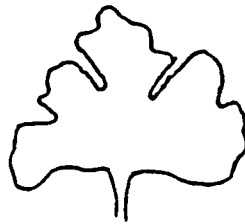
Ad/Add./Zu

Leaf blade:depth of incisions



1

absent or very weak  
absentes ou très faibles  
fehlend oder sehr gering



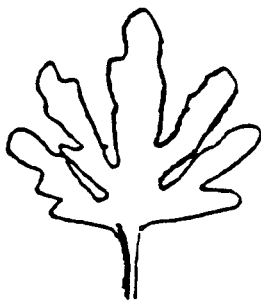
3

weak  
faibles  
gering



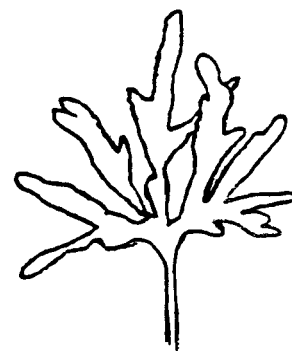
5

medium  
moyennes  
mittel



7

strong  
fortes  
stark



9

very strong  
très fortes  
sehr stark

IX. Literature/Littérature/Literatur

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