

Technical Committee

TC/59/15

Fifty-Ninth Session
Geneva, October 23 and 24, 2023Original: English
Date: October 5, 2023**PARTIAL REVISION OF THE TEST GUIDELINES FOR CUCUMBER, GHERKIN***Document prepared by the Office of the Union**Disclaimer: this document does not represent UPOV policies or guidance*

1. The purpose of this document is to present a proposal for a partial revision of the Test Guidelines for Cucumber, Gherkin (document TG/61/7 Rev. 2 Corr. 2) for inclusion of characteristics from the Table of Characteristics in the Technical Questionnaire.

2. The Technical Working Party for Vegetables (TWV), at its fifty-seventh session¹, considered document TWV/57/5 “Partial revision of the Test Guidelines for Cucumber, Gherkin” and agreed to propose the inclusion of the following characteristics in the TQ (characteristics for inclusion indicated in highlight and underline) (see document TWV/57/26 “Report”, paragraph 65):

Char. No.	(*)	Characteristic Name
1	(*)	Cotyledon: bitterness
2	(*)	<u>Plant: growth type</u>
5		<u>Leaf blade: length</u>
8		<u>Leaf blade: intensity of green color</u>
13	(*)	Plant: sex expression
14		<u>Plant: number of female flowers per node</u>
15	(*)	Ovary: color of vestiture
16	(*)	Parthenocarpy
17	(*)	Fruit: length
18		<u>Fruit: diameter</u>
22	(*)	Fruit: shape of stem end
23		<u>Only necked varieties: Fruit: length of neck</u>
25	(*)	Fruit: ground color of skin at market stage
26		<u>Excluding white varieties: Fruit: intensity of ground color of skin (as for 25)</u>
27	(*)	<u>Fruit: ribs</u>
29	(*)	<u>Fruit: creasing</u>
30		<u>Fruit: degree of creasing</u>
31	(*)	Fruit: type of vestiture
32		<u>Fruit: density of vestiture</u>
34	(*)	<u>Fruit: warts</u>
35		<u>Fruit: size of warts</u>
36		<u>Fruit: length of stripes</u>
37	(*)	<u>Fruit: dots</u>

¹ held in Antalya, Türkiye, from May 1 to 5, 2023

- 44 Resistance to *Cladosporium cucumerinum* (Ccu)
- 45 Resistance to *Cucumber mosaic virus* (CMV)
- 46 Resistance to Powdery mildew (*Podosphaera xanthii*) (Px)
- 47 Resistance to Downy mildew (*Pseudoperonospora cubensis*) (Pcu)
- 48 Resistance to *Corynespora blight and target leaf spot* (*Corynespora cassicola*) (Cca)
- 49 Resistance to *Cucumber vein yellowing virus* (CVYV)
- 50 Resistance to *Zucchini yellow mosaic virus* (ZYMV)
- 51 Resistance to *Cucurbit yellow stunting disorder virus* (CYSDV)

3. The proposed additions to TQ 5 are presented in highlight and underline.

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

Characteristics	Example Varieties	Note
5.1 Cotyledon: bitterness (1)		
absent	Rocket GS, Sandra	1 []
present	Farbio	9 []
5.2 Plant: growth type (2)		
<u>determinate</u>	<u>Bush Crop, Shachal</u>	1 []
<u>indeterminate</u>	<u>Corona, Levina</u>	2 []
5.3 Leaf blade: length (5)		
<u>very short</u>		1 []
<u>very short to short</u>		2 []
<u>short</u>	<u>Adam</u>	3 []
<u>short to medium</u>		4 []
<u>medium</u>	<u>Briljant</u>	5 []
<u>medium to long</u>		6 []
<u>long</u>	<u>Corona</u>	7 []
<u>long to very long</u>		8 []
<u>very long</u>		9 []
5.4 Leaf blade: intensity of green color (8)		
<u>very light</u>		1 []
<u>very light to light</u>		2 []
<u>light</u>	<u>De Russie</u>	3 []
<u>light to medium</u>		4 []
<u>medium</u>	<u>Rocket GS, Stereo</u>	5 []
<u>medium to dark</u>		6 []
<u>dark</u>	<u>Marketmore, Sandra,</u> <u>Tokyo Slicer</u>	7 []
<u>dark to very dark</u>		8 []
<u>very dark</u>	<u>Akito</u>	9 []

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Characteristics	Example Varieties	Note	
5.2 5 (13) Plant: sex expression			
monoecious	Hokus	1	[]
subgynoecious	Toska 70	2	[]
gynoecious	Farbio, Sandra, Wilma	3	[]
hermaphroditic	Sunsweet	4	[]
5.6 (14) Plant: number of female flowers per node			
<u>predominantly one</u>	<u>Dasher, Faraón</u>	1	[]
<u>predominantly one or two</u>	<u>Brunex, Marumba</u>	2	[]
<u>predominantly two</u>	<u>Corona</u>	3	[]
<u>predominantly two or three</u>	<u>Tempo</u>	4	[]
<u>predominantly three or four</u>	<u>Tornac</u>	5	[]
<u>predominantly four or five</u>	<u>Melody</u>	6	[]
<u>predominantly more than five</u>	<u>Olympos</u>	7	[]
5.3 7 (15) Ovary: color of vestiture			
white	Jazzer	1	[]
black	Vert petit de Paris	2	[]
5.4 8 (16) Parthenocarpy			
absent	Toska 70	1	[]
present	Farbio, Rocket GS, Sandra, Wilma	9	[]
5.4 9 (17) Fruit: length			
very short	De Russie, Sunsweet	1	[]
<u>very short to short</u>		2	[]
short		3	[]
<u>short to medium</u>		4	[]
medium	Gemini, Jazzer	5	[]
<u>medium to long</u>		6	[]
long	Corona	7	[]
<u>long to very long</u>		8	[]
very long		9	[]

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Characteristics	Example Varieties	Note
5.10 Fruit: diameter (18)		
<u>very small</u>		1 []
<u>very small to small</u>		2 []
<u>small</u>	<u>Picobello, Wilma</u>	3 []
<u>small to medium</u>		4 []
<u>medium</u>	<u>Corona, Diamant</u>	5 []
<u>medium to large</u>		6 []
<u>large</u>	<u>Delikatess, Riesenschäl</u>	7 []
<u>large to very large</u>		8 []
<u>very large</u>		9 []
5.6 11 Fruit: shape of stem end (22)		
necked	Sandra, Tasty Green	1 []
acute	De Massy	2 []
obtuse	Maram, Score	3 []
5.12 Only necked varieties: Fruit: length of neck (23)		
<u>very short</u>		1 []
<u>very short to short</u>		2 []
<u>short</u>	<u>Saskia</u>	3 []
<u>short to medium</u>		4 []
<u>medium</u>	<u>Corona, Telepathy</u>	5 []
<u>medium to long</u>		6 []
<u>long</u>	<u>Kamaron</u>	7 []
<u>long to very long</u>		8 []
<u>very long</u>	<u>Tasty Green</u>	9 []
5.7 13 Fruit: ground color of skin at market stage (25)		
white	Bonneuil	1 []
yellow	Gele Tros	2 []
green	Corona	3 []

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Characteristics	Example Varieties	Note
5.14 (26)		
Excluding white varieties: Fruit: intensity of ground color of skin (as for 25)		
<u>very light</u>		1 1
<u>very light to light</u>		2 1
<u>light</u>		3 1
<u>light to medium</u>		4 1
<u>medium</u>		5 1
<u>medium to dark</u>		6 1
<u>dark</u>		7 1
<u>dark to very dark</u>		8 1
<u>very dark</u>		9 1
5.15 (27)		
Fruit: ribs		
<u>absent or weak</u>	<u>Darius, Diana</u>	1 1
<u>medium</u>	<u>Sprint</u>	2 1
<u>strong</u>	<u>Vert petit de Paris</u>	3 1
5.16 (29)		
Fruit: creasing		
<u>absent</u>	<u>Jazzer</u>	1 1
<u>present</u>	<u>Corona, Nabil</u>	9 1
5.17 (30)		
Fruit: degree of creasing		
<u>very weak</u>	<u>Silor</u>	1 1
<u>very weak to weak</u>		2 1
<u>weak</u>	<u>Nabil</u>	3 1
<u>weak to medium</u>		4 1
<u>medium</u>	<u>Corona, Galileo</u>	5 1
<u>medium to strong</u>		6 1
<u>strong</u>	<u>Grizzly</u>	7 1
<u>strong to very strong</u>		8 1
<u>very strong</u>	<u>Suyo Long</u>	9 1

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Characteristics	Example Varieties	Note
5.8 18 Fruit: type of vestiture (31)		
hairs only	Silor	1 []
hairs and prickles	De Bourbonne, De Massy	2 []
prickles only	Corona, Jazzer	3 []
5.19 Fruit: density of vestiture (32)		
<u>very sparse</u>	<u>Vert petit de Paris</u>	1 []
<u>very sparse to sparse</u>		2 []
<u>sparse</u>		3 []
<u>sparse to medium</u>		4 []
<u>medium</u>	<u>Tasty Green</u>	5 []
<u>medium to dense</u>		6 []
<u>dense</u>	<u>Silor, Suvo Long</u>	7 []
<u>dense to very dense</u>		8 []
<u>very dense</u>	<u>Moneta, Parmel</u>	9 []
5.20 Fruit: warts (34)		
<u>absent</u>	<u>Diana</u>	1 []
<u>present</u>	<u>Chinese Slangen, Dumex, Regal</u>	9 []
5.21 Fruit: size of warts (35)		
<u>very small</u>	<u>Parmel</u>	1 []
<u>very small to small</u>		2 []
<u>small</u>	<u>Jazzer</u>	3 []
<u>small to medium</u>		4 []
<u>medium</u>	<u>Regal</u>	5 []
<u>medium to large</u>		6 []
<u>large</u>	<u>Chinese Slangen</u>	7 []
<u>large to very large</u>		8 []
<u>very large</u>	<u>Tasty Green</u>	9 []

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Characteristics	Example Varieties	Note
5.22 Fruit: length of stripes (36)		
<u>absent or very short</u>		1[]
<u>very short to short</u>		2[]
<u>short</u>	<u>Astrea</u>	3[]
<u>short to medium</u>		4[]
<u>medium</u>	<u>Breso</u>	5[]
<u>medium to long</u>		6[]
<u>long</u>	<u>Pioneer, Tokyo Slicer</u>	7[]
<u>long to very long</u>		8[]
<u>very long</u>	<u>Suyo Long</u>	9[]
5.23 Fruit: dots (37)		
<u>absent</u>	<u>Sensation</u>	1[]
<u>present</u>	<u>Delicatesse,</u> <u>Hanpaku-Fushinari,</u> <u>Sagami-Fanpaku,</u> <u>White Sun</u>	9[]
5.9 24 Resistance to <i>Cladosporium cucumerinum</i> (Ccu) (44)		
<u>absent</u>	<u>Cherubino, Frontera,</u> <u>Pepinex 69</u>	1[]
<u>present</u>	<u>Corona, Marketmore 76,</u> <u>Sheila</u>	9[]
5.10 25 Resistance to <i>Cucumber mosaic virus</i> (CMV) (45)		
<u>susceptible</u>	<u>Bosporus, Corona, Ventura</u>	1[]
<u>moderately resistant</u>	<u>Capra, Gardon, Verdon</u>	2[]
<u>highly resistant</u>	<u>Naf, Picolino</u>	3[]
5.11 26 Resistance to Powdery mildew (<i>Podosphaera xanthii</i>) (Px) (46)		
<u>susceptible</u>	<u>Corona, Ventura</u>	1[]
<u>moderately resistant</u>	<u>Flamingo</u>	2[]
<u>highly resistant</u>	<u>Aramon, Bella, Cordoba</u>	3[]

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Characteristics	Example Varieties	Note
<u>5.27</u> <u>(47)</u> <u>Resistance to Downy mildew (<i>Pseudoperonospora cubensis</i>) (Pcu)</u>		
<u>absent</u>	<u>Pepinex 69, Wisconsin</u>	<u>1 []</u>
<u>present</u>	<u>Poinsett 76</u>	<u>9 []</u>
<u>not tested</u>		<u>[]</u>
<u>5.12 28</u> <u>(48)</u> <u>Resistance to <i>Corynespora</i> blight and target leaf rot (<i>Corynespora cassicola</i>) (Cca)</u>		
<u>absent</u>	<u>Bodega, Pepinova</u>	<u>1 []</u>
<u>present</u>	<u>Corona, Cumlaude</u>	<u>9 []</u>
<u>5.13 29</u> <u>(49)</u> <u>Resistance to <i>Cucumber vein yellowing virus</i> (CVYV)</u>		
<u>absent</u>	<u>Corinda, Corona, Ventura</u>	<u>1 []</u>
<u>present</u>	<u>Dina, Summerstar, Tornac</u>	<u>9 []</u>
<u>5.30</u> <u>(50)</u> <u>Resistance to <i>Zucchini yellow mosaic virus</i> (ZYMV)</u>		
<u>absent</u>	<u>Corona, Hilton, Ventura</u>	<u>1 []</u>
<u>present</u>	<u>Dina, Summerstar, Thunder</u>	<u>9 []</u>
<u>not tested</u>		<u>[]</u>
<u>5.31</u> <u>(51)</u> <u>Resistance to <i>Cucurbit yellow stunting disorder virus</i> (CYSDV)</u>		
<u>absent</u>	<u>Burgos, Castro, Corona</u>	<u>1 []</u>
<u>present</u>	<u>Atalaya, Fortyca</u>	<u>9 []</u>
<u>not tested</u>		<u>[]</u>

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