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| International Union for the Protection of New Varieties of Plants |  |

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Partial revision of the Test Guidelines for Cucumber, Gherkin

Document prepared by the Office of the Union

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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.

The background to the proposed partial revision of the Test Guidelines for Cucumber, Gherkin (*Cucumis sativus* L.) is presented in document TWP/7/6 “Revision of Test Guidelines”.

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** | **Comments** |
| 1 | (\*) | Cotyledon: bitterness |  |
| 2 | (\*) | Plant: growth type |  |
| 5 |  | Leaf blade: length |  |
| 8 |  | Leaf blade: intensity of green color |  |
| 13 | (\*) | Plant: sex expression |  |
| 14 |  | Plant: number of female flowers per node |  |
| 15 | (\*) | Ovary: color of vestiture |  |
| 16 | (\*) | Parthenocarpy |  |
| 17 | (\*) | Fruit: length |  |
| 18 |  | Fruit: diameter |  |
| 22 | (\*) | Fruit: shape of stem end |  |
| 23 |  | Only necked varieties: Fruit: length of neck | Option “not applicable” added |
| 25 | (\*) | Fruit: ground color of skin at market stage |  |
| 26 |  | Excluding white varieties: Fruit: intensity of ground color of skin (as for 25) | Option “not applicable” added |
| 27 | (\*) | Fruit: ribs |  |
| 29 | (\*) | Fruit: creasing |  |
| 30 |  | Fruit: degree of creasing | Option “not applicable” added |
| 31 | (\*) | Fruit: type of vestiture |  |
| 32 |  | Fruit: density of vestiture |  |
| 35 |  | Fruit: size of warts |  |
| 36 |  | Fruit: length of stripes |  |
| 37 | (\*) | Fruit: dots |  |
| 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) | Option “not tested “ added |
| 48 |  | Resistance to Corynespora blight and target leaf spot (*Corynespora cassiicola*) (Cca) |  |
| 49 |  | Resistance to *Cucumber vein yellowing virus* (CVYV) |  |
| 50 |  | Resistance to *Zucchini yellow mosaic virus* (ZYMV) | Option “not tested “ added |
| 51 |  | Resistance to *Cucurbit yellow stunting disorder virus* (CYSDV) | Option “not tested “ added |

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

| 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 Test Guidelines; please mark the note which best corresponds). | | | | | |
|  | Characteristics | | | Example Varieties | Note |
| **5.1 (1)** | **Cotyledon: bitterness** | | |  |  |
|  | absent | | | Rocket GS, Sandra | 1 [ ] |
|  | present | | | Farbio | 9 [ ] |
| **5.2 (2)** | **Plant: growth type** | | |  |  |
|  | determinate | | | Bush Crop, Shachal | 1 [ ] |
|  | indeterminate | | | Corona, Levina | 2 [ ] |
| **5.3 (5)** | **Leaf blade: length** | | |  |  |
|  | very short | | |  | 1[ ] |
|  | very short to short | | |  | 2[ ] |
|  | short | | | Adam | 3[ ] |
|  | short to medium | | |  | 4[ ] |
|  | medium | | | Briljant | 5[ ] |
|  | medium to long | | |  | 6[ ] |
|  | long | | | Corona | 7[ ] |
|  | long to very long | | |  | 8[ ] |
|  | very long | | |  | 9[ ] |
| **5.4 (8)** | **Leaf blade: intensity of green color** | | |  |  |
|  | very light | | |  | 1[ ] |
|  | very light to light | | |  | 2[ ] |
|  | light | | | De Russie | 3[ ] |
|  | light to medium | | |  | 4[ ] |
|  | medium | | | Rocket GS, Stereo | 5[ ] |
|  | medium to dark | | |  | 6[ ] |
|  | dark | | | Marketmore, Sandra,  Tokyo Slicer | 7[ ] |
|  | dark to very dark | | |  | 8[ ] |
|  | very dark | | | Akito | 9[ ] |
|  | Characteristics | | | Example Varieties | Note |
| **5.~~2~~ 5 (13)** | **Plant: sex expression** | | |  |  |
|  | monoecoius | | | Hokus | 1 [ ] |
|  | subgynoecious | | | Toska 70 | 2 [ ] |
|  | gynoecious | | | Farbio, Sandra, Wilma | 3 [ ] |
|  | hermaphrodytic | | | Sunsweet | 4 [ ] |
| **5.6 (14)** | **Plant: number of female flowers per node** | | |  |  |
|  | predominantly one | | | Dasher, Faraón | 1[ ] |
|  | predominantly one or two | | | Brunex, Marumba | 2[ ] |
|  | predominantly two | | | Corona | 3[ ] |
|  | predominantly two or three | | | Tempo | 4[ ] |
|  | predominantly three or four | | | Tornac | 5[ ] |
|  | predominantly four or five | | | Melody | 6[ ] |
|  | predominantly more than five | | | Olympos | 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[ ] |
|  | very short to short | | |  | 2[ ] |
|  | short | | |  | 3[ ] |
|  | short to medium | | |  | 4[ ] |
|  | medium | | | Gemini, Jazzer | 5[ ] |
|  | medium to long | | |  | 6[ ] |
|  | long | | | Corona | 7[ ] |
|  | long to very long | | |  | 8[ ] |
|  | very long | | |  | 9[ ] |
|  | Characteristics | | | Example Varieties | Note |
| **5.10 (18)** | **Fruit: diameter** | | |  |  |
|  | very small | | |  | 1[ ] |
|  | very small to small | | |  | 2[ ] |
|  | small | | | Picobello, Wilma | 3[ ] |
|  | small to medium | | |  | 4[ ] |
|  | medium | | | Corona, Diamant | 5[ ] |
|  | medium to large | | |  | 6[ ] |
|  | large | | | Delikatess, Riesenschäl | 7[ ] |
|  | large to very large | | |  | 8[ ] |
|  | very large | | |  | 9[ ] |
| **5.~~6~~ 11 (22)** | **Fruit: shape of stem end** | | |  |  |
|  | necked | | | Sandra, Tasty Green | 1 [ ] |
|  | acute | | | De Massy | 2 [ ] |
|  | obtuse | | | Maram, Score | 3 [ ] |
| **5.12 (23)** | **Only necked varieties: Fruit: length of neck** | | |  |  |
|  | very short | | |  | 1[ ] |
|  | very short to short | | |  | 2[ ] |
|  | short | | | Saskia | 3[ ] |
|  | short to medium | | |  | 4[ ] |
|  | medium | | | Corona, Telepathy | 5[ ] |
|  | medium to long | | |  | 6[ ] |
|  | long | | | Kamaron | 7[ ] |
|  | long to very long | | |  | 8[ ] |
|  | very long | | | Tasty Green | 9[ ] |
|  | not applicable | | |  | [ ] |
| **5.~~7~~ 13 (25)** | **Fruit: ground color of skin at market stage** | | |  |  |
|  | white | | | Bonneuil | 1 [ ] |
|  | yellow | | | Gele Tros | 2 [ ] |
|  | green | | | Corona | 3 [ ] |
|  | Characteristics | | | Example Varieties | Note |
| **5.14 (26)** | **Excluding white varieties: Fruit: intensity of ground color of skin (as for 25)** | | |  |  |
|  | very light | | |  | 1[ ] |
|  | very light to light | | |  | 2[ ] |
|  | light | | |  | 3[ ] |
|  | light to medium | | |  | 4[ ] |
|  | medium | | |  | 5[ ] |
|  | medium to dark | | |  | 6[ ] |
|  | dark | | |  | 7[ ] |
|  | dark to very dark | | |  | 8[ ] |
|  | very dark | | |  | 9[ ] |
|  | not applicable | | |  | [ ] |
| **5.15 (27)** | **Fruit: ribs** | | |  |  |
|  | absent or weak | | | Darius, Diana | 1[ ] |
|  | medium | | | Sprint | 2[ ] |
|  | strong | | | Vert petit de Paris | 3[ ] |
| **5.16 (29)** | **Fruit: creasing** | | |  |  |
|  | absent | | | Jazzer | 1[ ] |
|  | present | | | Corona, Nabil | 9[ ] |
| **5.17 (30)** | **Fruit: degree of creasing** | | |  |  |
|  | very weak | | | Silor | 1[ ] |
|  | very weak to weak | | |  | 2[ ] |
|  | weak | | | Nabil | 3[ ] |
|  | weak to medium | | |  | 4[ ] |
|  | medium | | | Corona, Galileo | 5[ ] |
|  | medium to strong | | |  | 6[ ] |
|  | strong | | | Grizzly | 7[ ] |
|  | strong to very strong | | |  | 8[ ] |
|  | very strong | | | Suyo Long | 9[ ] |
|  | not applicable | | |  | [ ] |
|  | Characteristics | | | Example Varieties | Note |
| **5.~~8~~ 18 (31)** | **Fruit: type of vestiture** | | |  |  |
|  | hairs only | | | Silor | 1 [ ] |
|  | hairs and prickles | | | De Bourbonne, De Massy | 2 [ ] |
|  | prickles only | | | Corona, Jazzer | 3 [ ] |
| **5.19 (32)** | **Fruit: density of vestiture** | | |  |  |
|  | very sparse | | | Vert petit de Paris | 1[ ] |
|  | very sparse to sparse | | |  | 2[ ] |
|  | sparse | | |  | 3[ ] |
|  | sparse to medium | | |  | 4[ ] |
|  | medium | | | Tasty Green | 5[ ] |
|  | medium to dense | | |  | 6[ ] |
|  | dense | | | Silor, Suyo Long | 7[ ] |
|  | dense to very dense | | |  | 8[ ] |
|  | very dense | | | Moneta, Parmel | 9[ ] |
| **5.20 (35)** | **Fruit: size of warts** | | |  |  |
|  | very small | | | Parmel | 1[ ] |
|  | very small to small | | |  | 2[ ] |
|  | small | | | Jazzer | 3[ ] |
|  | small to medium | | |  | 4[ ] |
|  | medium | | | Regal | 5[ ] |
|  | medium to large | | |  | 6[ ] |
|  | large | | | Chinese Slangen | 7[ ] |
|  | large to very large | | |  | 8[ ] |
|  | very large | | | Tasty Green | 9[ ] |
|  | Characteristics | | | Example Varieties | Note |
| **5.21 (36)** | **Fruit: length of stripes** | | |  |  |
|  | absent or very short | | |  | 1[ ] |
|  | very short to short | | |  | 2[ ] |
|  | short | | | Astrea | 3[ ] |
|  | short to medium | | |  | 4[ ] |
|  | medium | | | Breso | 5[ ] |
|  | medium to long | | |  | 6[ ] |
|  | long | | | Pioneer, Tokyo Slicer | 7[ ] |
|  | long to very long | | |  | 8[ ] |
|  | very long | | | Suyo Long | 9[ ] |
| **5.22 (37)** | **Fruit: dots** | | |  |  |
|  | absent | | | Sensation | 1[ ] |
|  | present | | | Delicatesse, Hanpaku‑Fushinari, Sagami‑Fanpaku,  White Sun | 9[ ] |
| **5.~~9~~ 23 (44)** | **Resistance to *Cladosporium cucumerinum* (Ccu)** | | |  |  |
|  | absent | | | Cherubino, Frontera, Pepinex 69 | 1[ ] |
|  | present | | | Corona, Marketmore 76, Sheila | 9[ ] |
|  | not tested | | |  | [ ] |
| **5.~~10~~ 24 (45)** | **Resistance to *Cucumber mosaic virus* (CMV)** | | |  |  |
|  | susceptible | | | Bosporus, Corona, Ventura | 1[ ] |
|  | moderately resistant | | | Capra, Gardon, Verdon | 2[ ] |
|  | highly resistant | | | Naf, Picolino | 3[ ] |
|  | not tested | | |  | [ ] |
| **5.~~11~~ 25 (46)** | **Resistance to Powdery mildew (*Podosphaera xanthii*) (Px)** | | |  |  |
|  | susceptible | | | Corona, Ventura | 1[ ] |
|  | moderately resistant | | | Flamingo | 2[ ] |
|  | highly resistant | | | Aramon, Bella, Cordoba | 3[ ] |
|  | not tested | | |  | [ ] |
|  | Characteristics | | | Example Varieties | Note |
| **5.26 (47)** | **Resistance to Downy mildew (*Pseudoperonospora cubensis*) (Pcu)** | | |  |  |
|  | absent | | | Pepinex 69, Wisconsin | 1[ ] |
|  | present | | | Poinsett 76 | 9[ ] |
|  | not tested | | |  | [ ] |
| **5.~~12~~ 27 (48)** | **Resistance to Corynespora blight and target leaf pot  (*Corynespora cassiicola*) (Cca)** | | |  |  |
|  | absent | | | Bodega, Pepinova | 1 [ ] |
|  | present | | | Corona, Cumlaude | 9 [ ] |
|  | not tested | | |  | [ ] |
| **5.~~13~~ 28 (49)** | **Resistance to *Cucumber vein yellowing virus* (CVYV)** | | |  |  |
|  | absent | | | Corinda, Corona, Ventura | 1 [ ] |
|  | present | | | Dina, Summerstar, Tornac | 9 [ ] |
|  | not tested | | |  | [ ] |
| **5.29 (50)** | **Resistance to *Zucchini yellow mosaic virus* (ZYMV)** | | |  |  |
|  | absent | | | Corona, Hilton, Ventura | 1 [ ] |
|  | present | | | Dina, Summerstar, Thunder | 9 [ ] |
|  | not tested | | |  | [ ] |
| **5.30 (51)** | **Resistance to *Cucurbit yellow stunting disorder virus* (CYSDV)** | | |  |  |
|  | absent | | | Burgos, Castro, Corona | 1 [ ] |
|  | present | | | Atalaya, Fortyca | 9 [ ] |
|  | not tested | | |  | [ ] |

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