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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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