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

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| Technical Committee  Fifty-Seventh Session Geneva, October 25 and 26, 2021 | TC/57/20  Original: English  Date: September 4, 2021 |

Partial revision of the Test Guidelines for Actinidia

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 Actinidia (document TG/98/7 Rev. Corr.).

The background to the proposed partial revision of the Test Guidelines for Actinidia is presented in document TC/57/2 “Test Guidelines”.

The Technical Working Party for Fruit Crops (TWF), at its fifty-second session[[1]](#footnote-2), considered a proposal for a partial revision of the Technical Questionnaire (TQ) of the Test Guidelines for Actinidia (*Actinidia* Lindl.) on the basis of document TWP/5/13 “Revision of Test Guidelines”, paragraph 17 and Annex XV. The TWF agreed to propose the inclusion of the following characteristics in the TQ (characteristics for inclusion indicated in highlight and underline) (see document TWF/52/10 “Report”, paragraph 88):

|  |  |  |
| --- | --- | --- |
| **Char. No.** | **(\*)** | **Characteristic Name** |
| 13 | (\*) | Stem: presence of bud cover |
| 14 | (\*) | Stem: size of hole in bud cover |
| 17 | (\*) | Leaf blade: shape |
| 19 | (\*) | Leaf blade: shape of apex |
| 42 |  | Petal: main color on adaxial side |
| 46 |  | Anther: color |
| 47 | (\*) | Fruit: weight |
| 51 | (\*) | Fruit: shape |
| 52 | (\*) | Fruit: shape in cross section (at median) |
| 53 | (\*) | Fruit: stylar end |
| 56 | (\*) | Fruit: shape of shoulder at stalk end |
| 60 | (\*) | Fruit: hairiness of skin |
| 64 | (\*) | Fruit: color of skin |
| 66 | (\*) | Fruit: color of outer pericarp |
| 67 | (\*) | Fruit: color of locules |
| 72 | (\*) | Fruit: color of core |
| 75 | (\*) | Time of vegetative bud burst |
| 76 | (\*) | Time of beginning of flowering |
| 77 | (\*) | Time of maturity for harvest |

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  (76)** | **Time of beginning of flowering (for all varieties)** | | |  |  | |
|  | very early | | |  | 1[ ] | |
|  | very early to early | | |  | 2[ ] | |
|  | early | | | Hort16A (A), Yukimusume (B) | 3[ ] | |
|  | early to medium | | |  | 4[ ] | |
|  | medium | | | Abbott (A), Kousui (B) | 5[ ] | |
|  | medium to late | | |  | 6[ ] | |
|  | late | | | Hayward (A) | 7[ ] | |
|  | late to very late | | |  | 8[ ] | |
|  | very late | | |  | 9[ ] | |
| **5.2 (13)** | **Stem: presence of bud cover** | | |  |  | |
|  | absent | | | Hort16A (A), Kousui (B) | 1[ ] | |
|  | present | | | Hayward (A), Mitsukou (B) | 9[ ] | |
| **5.3 (14)** | **Stem: size of hole in bud cover** | | |  |  | |
|  | small | | | Abbott (A), Mitsukou (B) | 1[ ] | |
|  | medium | | | Hayward (A), r-Awaji (B) | 2[ ] | |
|  | large | | | Elmwood (A), r-Nagano (B) | 3[ ] | |
| **5.4 (17)** | **Leaf blade: shape** | | |  |  | |
|  | lanceolate | | | Kaimai (A) | 1[ ] | |
|  | ovate | | | Hayward (A) | 2[ ] | |
|  | obovate | | | Bruno (A) | 3[ ] | |
|  | Characteristics | | | Example Varieties | Note | |
| **5.5 (19)** | **Leaf blade: shape of apex** | | |  |  | |
|  | caudate | | | Hortgem Tahi (B) | 1[ ] | |
|  | acuminate | | | Kaimai (A), Yukimusume (B) | 2[ ] | |
|  | acute | | | Hayward (A) | 3[ ] | |
|  | emarginate with cuspidate | | |  | 4[ ] | |
|  | rounded | | | Satoizumi (B) | 5[ ] | |
|  | retuse | | | Shinzan (B) | 6[ ] | |
|  | emarginate | | | Kuimi (A) | 7[ ] | |
| **5.6 (42)** | **Petal: main color on adaxial side** | | |  |  | |
|  | white | | | Hayward (A), Shinzan (B) | 1[ ] | |
|  | greenish white | | | Hortgem Tahi (B), Satoizumi (B) | 2[ ] | |
|  | yellowish white | | | Bruce (A), Mitsukou (B) | 3[ ] | |
|  | yellowish green | | |  | 4[ ] | |
|  | yellow | | |  | 5[ ] | |
|  | light pink | | |  | 6[ ] | |
|  | red pink | | |  | 7[ ] | |
|  | red | | |  | 8[ ] | |
| **5.7 (46)** | **Anther: color** | | |  |  | |
|  | yellow | | | r-Nagano (B) | 1[ ] | |
|  | yellow orange | | | Bruce (A) | 2[ ] | |
|  | grey | | |  | 3[ ] | |
|  | dark purple | | | Mitsukou (B) | 4[ ] | |
|  | black | | | a-Shouwa (B) | 5[ ] | |
|  | Characteristics | | | Example Varieties | Note | |
| **5.~~2~~ 8 (47)** | **Fruit: weight (for female and hermaphrodite varieties)** | | |  |  | |
|  | very low | | |  | 1[ ] | |
|  | very low to low | | |  | 2[ ] | |
|  | low | | | Huaguang2 (A) | 3[ ] | |
|  | low to medium | | |  | 4[ ] | |
|  | medium | | | Hort16A (A), Hortgem Tahi (B), Tomua (A) | 5[ ] | |
|  | medium to high | | |  | 6[ ] | |
|  | high | | | Hayward (A), Jin Feng (A) | 7[ ] | |
|  | high to very high | | |  | 8[ ] | |
|  | very high | | | Jade Moon (A) | 9[ ] | |
| **5.~~3~~ 9 (51)** | **Fruit: shape (for female and hermaphrodite varieties)** | | |  | |  | |
|  | ovate | | | Hort16A (A), Jecy Gold (A), Yamagatamusume (B) | | 1[ ] | |
|  | oblong | | | Hortgem Toru (B), Wilkins Super (A) | | 2[ ] | |
|  | elliptic | | | Hayward (A), Mitsukou (B) | | 3[ ] | |
|  | circular | | | Hort51-1785 (A) | | 4[ ] | |
|  | oblate | | | Kuimi (A), Shinzan (B) | | 5[ ] | |
|  | obovate | | | Monty (A) | | 6[ ] | |
| **5.10 (52)** | **Fruit: shape in cross section (at median)** | | |  | |  | |
|  | circular | | | Bruno (A), Mitsukou (B) | | 1[ ] | |
|  | oblate | | | Hortgem Tahi (B), Kousui (B),  Wilkins Super (A) | | 2[ ] | |
|  | transverse elliptic | | | Hayward (A) | | 3[ ] | |
| **5.~~4~~ 11 (53)** | **Fruit: stylar end (for female and hermaphrodite varieties)** | | |  | |  | |
|  | strongly depressed | | |  | | 1[ ] | |
|  | weakly depressed | | | Jade Moon (A) | | 2[ ] | |
|  | flat | | | Hayward (A), Satoizumi (B) | | 3[ ] | |
|  | rounded | | | Kousui (B), Tomua (A) | | 4[ ] | |
|  | weakly blunt protruding | | | Skelton (A) | | 5[ ] | |
|  | strongly blunt protruding | | | Hort16A (A) | | 6[ ] | |
|  | pointed protrusion | | | Hortgem Toru (B) | | 7[ ] | |
|  | Characteristics | | | Example Varieties | | Note | |
| **5.12 (56)** | **Fruit: shape of shoulder at stalk end** | | |  | |  | |
|  | truncate | | | Hortgem Tahi (B), Mitsukou (B) | | 1[ ] | |
|  | weakly sloping | | | Hayward (A), Kousui (B) | | 2[ ] | |
|  | strongly sloping | | | Skelton (A) | | 3[ ] | |
| **5.~~5~~ 13 (60)** | **Fruit: hairiness of skin (for female and hermaphrodite varieties)** | | |  | |  | |
|  | absent | | | Shinzan (B), a-Shouwa (B) | | 1[ ] | |
|  | present | | | Hayward (A) | | 9[ ] | |
| **5.14 (64)** | **Fruit: color of skin** | | |  | |  | |
|  | light green | | | Hortgem Rua (B) | | 1[ ] | |
|  | medium green | | | Hortgem Tahi (B), Mitsukou (B) | | 2[ ] | |
|  | reddish green | | |  | | 3[ ] | |
|  | yellow | | |  | | 4[ ] | |
|  | greenish brown | | | Hayward (A), Shinzan (B) | | 5[ ] | |
|  | reddish brown | | |  | | 6[ ] | |
|  | light brown | | | Hort16A (A) | | 7[ ] | |
|  | medium brown | | | Sanuki Gold (A) | | 8[ ] | |
|  | dark brown | | | Kousui (B), Tomua (A) | | 9[ ] | |
|  | purple red | | |  | | 10[ ] | |
| **5.~~6~~ 15 (66)** | **Fruit: color of outer pericarp (for female and hermaphrodite varieties)** | | |  | |  | |
|  | light green | | | Shinzan (B) | | 1[ ] | |
|  | medium green | | | Hayward (A) | | 2[ ] | |
|  | dark green | | | Hortgem Toru (B) | | 3[ ] | |
|  | greenish yellow | | | Hort22D (A), Satoizumi (B) | | 4[ ] | |
|  | medium yellow | | | Hort16A (A), Kousui (B) | | 5[ ] | |
|  | dark yellow | | | Hort51-1785 (A) | | 6[ ] | |
|  | yellowish orange | | |  | | 7[ ] | |
|  | orange | | |  | | 8[ ] | |
|  | red | | |  | | 9[ ] | |
|  | red purple | | |  | | 10[ ] | |
|  | Characteristics | | | Example Varieties | | Note | |
| **5.~~7~~ 16 (67)** | **Fruit: color of locules (for female and hermaphrodite varieties)** | | |  | |  | |
|  | light green | | | Shinzan (B) | | 1[ ] | |
|  | medium green | | | Hayward (A), Hortgem Tahi (B) | | 2[ ] | |
|  | dark green | | | Hortgem Toru (B) | | 3[ ] | |
|  | greenish yellow | | | Satoizumi (B) | | 4[ ] | |
|  | medium yellow | | | Hort16A (A), Kousui (B) | | 5[ ] | |
|  | dark yellow | | | Hort51-1785 (A) | | 6[ ] | |
|  | red | | | Hort22D (A), Hortgem Rua (B) | | 7[ ] | |
|  | red purple | | |  | | 8[ ] | |
| **5.17 (72)** | **Fruit: color of core** | | |  | |  | |
|  | white | | | Hort22D (A) | | 1[ ] | |
|  | greenish white | | | Hayward (A), Hortgem Tahi (B) | | 2[ ] | |
|  | yellow white | | | Hort16A (A), Shinzan (B) | | 3[ ] | |
|  | red purple | | |  | | 4[ ] | |
| **5.18 (75)** | **Time of vegetative bud burst** | | |  | |  | |
|  | very early | | | Hort16A (A), Hortgem Rua (B) | | 1[ ] | |
|  | very early to early | | |  | | 2[ ] | |
|  | early | | | Tomua (A), Yukimusume (B) | | 3[ ] | |
|  | early to medium | | |  | | 4[ ] | |
|  | medium | | | Hayward (A), Shinzan (B) | | 5[ ] | |
|  | medium to late | | |  | | 6[ ] | |
|  | late | | | Mitsukou (B) | | 7[ ] | |
|  | late to very late | | |  | | 8[ ] | |
|  | very late | | |  | | 9[ ] | |
|  | Characteristics | | | Example Varieties | | Note | |
| **5.~~8~~ 19  (77)** | **Time of maturity for harvest (for female and hermaphrodite varieties)** | | |  | |  | |
|  | very early | | | Hortgem Rua (B) | | 1[ ] | |
|  | very early to early | | |  | | 2[ ] | |
|  | early | | | Hort 22D (A), Hortgem Tahi (B), Yamagatamusume (B) | | 3[ ] | |
|  | early to medium | | |  | | 4[ ] | |
|  | medium | | | Kousui (B), Tomua (A) | | 5[ ] | |
|  | medium to late | | |  | | 6[ ] | |
|  | late | | | Hayward (A), Yukimusume (B) | | 7[ ] | |
|  | late to very late | | |  | | 8[ ] | |
|  | very late | | |  | | 9[ ] | |

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1. hosted by China and organized by electronic means, from July 12 to 16, 2021 [↑](#footnote-ref-2)