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

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| Technical Working Party for Fruit CropsForty-Ninth SessionSantiago de Chile, Chile, November 19 to 23, 2018 | TWF/49/4Original: EnglishDate: October 11, 2018 |

Partial revision of the Test Guidelines for Almond

Document prepared by an expert from Spain

Disclaimer: this document does not represent UPOV policies or guidance

 The purpose of this document is to present a proposal for a partial revision of the Test Guidelines for Almond (*Prunus dulcis* (Mill.) D.A.Webb) (document TG/56/4 Corr.).

 The Technical Working Party for Fruit Crops (TWF), at its forty-eighth session in Kelowna, British Columbia, Canada, from Canada, September 18 to 22, 2017, agreed that the Test Guidelines for Almond be partially revised for Characteristic 43 “Time of beginning of flowering” (see document TWF/48/13 “Report”, Annex V).

 The following changes are proposed:

1. Revision of the example varieties of Characteristic 43 “Time of beginning of flowering” and addition of intermediate states of expression
2. Addition of literature references to Chapter 9 “Literature”

 The proposed changes are presented below in highlight and underline (insertion) and ~~strikethrough~~ (deletion).

Proposal to revise the example varieties of Characteristic 43 “Time of beginning of flowering” and addition of intermediate states of expression

*Current wording*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 43. (\*)(+) | MG | Time of beginning of flowering  | Époque du début de floraison | Zeitpunkt des Blühbeginns  | Epoca de comienzo de la floración |  |  |
| **QN** |  | very early | très précoce | sehr früh | muy temprana | Umm al-Fahm | 1 |
|  |  | early  | précoce | früh  | temprana |  | 3 |
|  |  | medium | moyenne | mittel | mediana | Nec Plus Ultra | 5 |
|  |  | late | tardive | spät | tardía |  | 7 |
|  |  | very late | très tardive | sehr spät | muy tardía | Peerless | 9 |

*Proposed new wording*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 43. (\*)(+) | MG | Time of beginning of flowering  | Époque du début de floraison | Zeitpunkt des Blühbeginns  | Epoca de comienzo de la floración |  |  |
| **QN** |  | very early | très précoce | sehr früh | muy temprana | ~~Umm al-Fahm~~Zahaf, Cavaliera | 1 |
|  |  | very early to early | très précoce à très précoce | sehr früh bis früh | muy temprana a temprana | Desmayo Largueta, Rameira, Avola | 2 |
|  |  | early  | précoce | früh  | temprana  | Chellaston, Princesse | 3 |
|  |  | early to medium | très précoce à moyenne | früh bis mittel | temprana a mediana | Marcona, Ne Plus Ultra, Bartre | 4 |
|  |  | medium | moyenne | mittel | mediana | ~~Nec Plus Ultra~~Peerless, Nonpareil, Cristomorto, Miagkoskorlupij | 5 |
|  |  | medium to late | moyenne à tardive | mittel bis spät | mediana a tardía | Guara, Ferragnès, Primorskij | 6 |
|  |  | late | tardive | spät | tardía | Felisia, Steliette | 7 |
|  |  | late to very late | tardive à très tardive | spat bis sehr spät | tardía a muy tardía | Vialfas | 8 |
|  |  | very late | très tardive | sehr spät | muy tardía | ~~Peerless~~Diamar, Penta | 9 |

Proposal to add literature references to Chapter 9 “Literature”

*Current wording*

9. Literature

 No specific literature.

*Proposed new wording*

9. Literature

Alonso Segura J.M., Socias i Company R., Kodad O., 2017: Late-blooming in almond: A controversial objective. Scientia Horticulturae 224: pp. 61 to 67

Asai W.K., Micke W.C., Kester D.E., Rough D., 1996: The Evaluation and Selection of Current Varieties (Chapter 8.) In: *Almond production manual* (Micke, W.C. Ed.). Division of Agriculture and Natural Resources, University of California. pp. 52 to 60

Dicenta, F., Sánchez-Pérez, R., Batlle, I., Martínez-Gómez, P. 2017. 7 Late-blooming Cultivar Development. in: Socias i Company R, Gradziel TM (Eds.), Almonds. Botany, Production and Uses. CABI, USA, pp.168 to 187

Wirthensohn, M., Iannamico, L., 2017. 4 Almond in the Southern Hemisphere. in: Socias i Company R, Gradziel TM (Eds.), Almonds. Botany, Production and Uses. CABI, US, pp. 87 to 110

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