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| |  |  |  | | --- | --- | --- | |  |  | **E** | |  |  |  | |  | wordml://75.png | |  | | --- | | **TG/35/8(proj.4)** | | **ORIGINAL:** English | | **DATE:** 2023-05-23 | | | **INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS** | | | |  | Geneva |  | |  | |  |  |  | | --- | --- | --- | |  |  |  | |  | DRAFT |  | |  |  |  | |  | |  |  |  | |  | |  | | --- | |  | | **SWEET CHERRY** | |  | | |  | | --- | |  | | |  | | --- | | UPOV Code(s): PRUNU\_AVI | | |  | | |  | | |  |  | | --- | --- | | |  | | --- | | *Prunus avium* (L.) L. | | |  | | |  | | |  | | --- | | \* | | |  |  |  | | |  | | --- | | **GUIDELINES** | |  | | **FOR THE CONDUCT OF TESTS** | |  | | **FOR DISTINCTNESS, UNIFORMITY AND STABILITY** | | | | |  |  |  | | |  | | --- | | *prepared by experts from France* | | *to be considered by the* | | |  | | --- | | *Technical Working Party for Fruit Crops* | | | *at its fifty-fourth session, to be held in Nîmes, France,* | | |  | | --- | | *from 2023-07-03 to 2023-07-07* | | | | | | *Disclaimer: this document does not represent UPOV policies or guidance* | | | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | |  | | --- | | Alternative names:\* | | | | | | | |  | | --- | |  | | | | | | | *Botanical name* | *English* | *French* | *German* | *Spanish* | | |  | | --- | | *Prunus avium* (L.) L., *Cerasus avium* (L.) Moench | | |  | | --- | | Sweet Cherry | | |  | | --- | | Bigarreaux, Cérisier doux | | |  | | --- | | Süßkirsche | | |  | | --- | | Cerezo dulce, Mollar | | | | | |  |  |  | | The purpose of these guidelines (“Test Guidelines”) is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions. | | | |  | | | | **ASSOCIATED DOCUMENTS** | | | | These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents. | | | | |  |  |  | | --- | --- | --- | | Other associated UPOV documents: | |  | | --- | | TG/187/2 Prunus Rootstocks  TG/230/1 Duke Cherry, Sour Cherry | | | | | |

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| |  |  | | --- | --- | | TABLE OF CONTENTS | PAGE | |  |  | | |  |  |  | | --- | --- | --- | | 1. | SUBJECT OF THESE TEST GUIDELINES.......................................................................................................... | [4](#Section1) | |  |  |  | | 2. | MATERIAL REQUIRED..................................................................................................................... | [4](#Section2) | |  |  |  | | 3. | METHOD OF EXAMINATION............................................................................................................... | [4](#Section3) | |  |  |  | |  | |  |  |  | | --- | --- | --- | | 3.1 | Number of Growing Cycles................................................................................................................. | [4](#Section3-1) | | 3.2 | Testing Place................................................................................................................... | [4](#Section3-2) | | 3.3 | Conditions for Conducting the Examination............................................................................................... | [4](#Section3-3) | | 3.4 | Test Design................................................................................................................. | [6](#Section3-4) | | 3.5 | Additional Tests................................................................................................................... | [6](#Section3-5) | | | |  |  |  | | 4. | ASSESSMENT OF DISTINCTNESS, UNIFORMITY AND STABILITY................................................................. | [6](#Section4) | |  |  |  | |  | |  |  |  | | --- | --- | --- | | 4.1 | Distinctness.......................................................................................................... | [6](#Section4-1) | | 4.2 | Uniformity............................................................................................................ | [7](#Section4-2) | | 4.3 | Stability............................................................................................................... | [7](#Section4-3) | | | |  |  |  | | 5. | GROUPING OF VARIETIES AND ORGANIZATION OF THE GROWING TRIAL................................................ | [8](#Section5) | |  |  |  | | 6. | INTRODUCTION TO THE TABLE OF CHARACTERISTICS................................................................................ | [8](#Section6) | |  |  |  | |  | |  |  |  | | --- | --- | --- | | 6.1 | Categories of Characteristics...................................................................................................... | [8](#Section6-1) | | 6.2 | States of Expression and Corresponding Notes........................................................................................ | [8](#Section6-2) | | 6.3 | Types of Expression............................................................................................................ | [9](#Section6-3) | | 6.4 | Example Varieties.............................................................................................................. | [9](#Section6-4) | | 6.5 | Legend................................................................................................................. | [10](#Section6-5) | | | |  |  |  | | 7. | TABLE OF CHARACTERISTICS/TABLEAU DES CARACTÈRES/MERKMALSTABELLE/TABLA DE CARACTERES.................................................................................................................. | [11](#Section7) | |  |  |  | | 8. | EXPLANATIONS ON THE TABLE OF CHARACTERISTICS............................................................................... | [28](#Section8) | |  | |  |  |  | | --- | --- | --- | | 8.1 | Explanations covering several characteristics........................................................................................... | [28](#Section8-1) | | |  | | --- | | 8.2 | | Explanations for individual characteristics................................................................................................. | [29](#Section8-2) | | | |  |  |  | | 9. | LITERATURE................................................................................................................... | [36](#Section9) | |  |  |  | | 10 | TECHNICAL QUESTIONNAIRE............................................................................................................ | [37](#Section10) | |  |  |  | |  | |  | | --- | |  | |  | | | |

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| --- | --- |
| 1. | Subject of these Test Guidelines |
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|  | |  | | --- | | These Test Guidelines apply to all varieties of *Prunus avium* (L.) L. except for varieties used only as rootstock varieties (see TG/187/2). | |

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| 2. | Material Required |
|  |  |
| 2.1 | |  | | --- | | The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with. | |
|  |  |
| 2.2 | |  | | --- | | The material is to be supplied in the form of one-year old grafts, budsticks or dormant shoots for grafting. | |
|  |  |
| 2.3 | |  | | --- | | The minimum quantity of plant material, to be supplied by the applicant, should be: | |
|  |  |
|  | |  | | --- | | 3 trees or 3 budsticks or 3 dormant shoots for grafting, sufficient to propagate 3 trees.  The rootstock to be used is specified by the competent authority. | |
|  |  |
| 2.4 | |  | | --- | | The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease. | |
|  |  |
| 2.5 | |  | | --- | | The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given. | |

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| 3. | Method of Examination |
|  |  |
| *3.1* | *Number of Growing Cycles* |
|  |  |
| |  | | --- | | 3.1.1 | | The minimum duration of tests should normally be two independent growing cycles. |
|  |  |
| |  | | --- | | 3.1.2 | | The two independent growing cycles may be observed from a single planting, examined in two separate growing cycles. |
|  |  |
| |  | | --- | | 3.1.3 | | |  | | --- | | In particular, it is essential that the trees produce a satisfactory crop of fruit in each of the two growing cycles. | |
|  |  |
| |  | | --- | | 3.1.4 | | The growing cycle is considered to be the duration of a single growing season, beginning with bud burst (flowering and/or vegetative), flowering and fruit harvest and concluding when the following dormant period ends with the swelling of new season buds. |
|  |  |
| |  | | --- | | 3.1.5 | | The testing of a variety may be concluded when the competent authority can determine with certainty the outcome of the test. |
|  |  |
| *3.2* | *Testing Place* |
|  |  |
|  | Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 “Examining Distinctness”. |
|  |  |

|  |  |
| --- | --- |
| *3.3* | *Conditions for Conducting the Examination* |
|  |  |
| |  | | --- | | 3.3.1 | | The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination. |
|  |  |
| 3.3.2 | The optimum stage of development for the assessment of each characteristic is indicated by a number in the Table of Characteristics. The stages of development denoted by each number are described in Chapter 8. |
|  |  |
| |  | | --- | | 3.3.3 | | Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in the British Standard 950, Part I. These determinations should be made with the plant part placed against a white background. The color chart and version used should be specified in the variety description. |
|  |  |

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| --- | --- |
| *3.4* | *Test Design* |
|  |  |
| 3.4.1 | |  | | --- | | Each test should be designed to result in a total of at least 3 trees. | |
|  |  |
| |  | | --- | | 3.4.2 | | |  | | --- | | The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle. | |
|  |  |
| |  | | --- | |  |   *3.5* | *Additional Tests* |
|  |  |
|  | Additional tests, for examining relevant characteristics, may be established. |

|  |  |
| --- | --- |
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|  |  |
| 4. | Assessment of Distinctness, Uniformity and Stability |
|  |  |
| *4.1* | *Distinctness* |
|  |  |
| 4.1.1 | General Recommendations |
|  |  |
|  | It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in these Test Guidelines. |
|  |  |
| 4.1.2 | Consistent Differences |
|  |  |
|  | The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles. |
|  |  |
| 4.1.3 | Clear Differences |
|  |  |
|  | Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo-qualitative manner. Therefore, it is important that users of these Test Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness. |
|  |  |
| 4.1.4 | |  | | --- | | Number of Plants or Parts of Plants to be Examined | |
|  |  |
|  | |  | | --- | | Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 3 plants or parts of plants taken from each of 3 plants and any other observations made on all plants in the test, disregarding any off-type plants. | |
|  |  |
|  | |  | | --- | | In the case of observations of parts taken from single plants, the number of parts to be taken from each of the plants should be 3. | |
|  |  |
| 4.1.5 | Method of Observation |
|  |  |
|  | The recommended method of observing the characteristic for the purposes of distinctness is indicated by the following key in the Table of Characteristics (see document TGP/9 “Examining Distinctness”, Section 4 “Observation of characteristics”): |
|  |  |
|  | |  | | --- | | MG: single measurement of a group of plants or parts of plants  MS: measurement of a number of individual plants or parts of plants  VG: visual assessment by a single observation of a group of plants or parts of plants  VS: visual assessment by observation of individual plants or parts of plants | |
|  |  |

|  |  |
| --- | --- |
|  | Type of observation: visual (V) or measurement (M) |
|  |  |
|  | “Visual” observation (V) is an observation made on the basis of the expert’s judgment. For the purposes of this document, “visual” observation refers to the sensory observations of the experts and, therefore, also includes smell, taste and touch. Visual observation includes observations where the expert uses reference points (e.g. diagrams, example varieties, side-by-side comparison) or non-linear charts (e.g. color charts). Measurement (M) is an objective observation against a calibrated, linear scale e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc. |
|  |  |
|  | |  | | --- | | Type of record: for a group of plants (G) or for single, individual plants (S) | |
|  |  |
|  | |  | | --- | | For the purposes of distinctness, observations may be recorded as a single record for a group of plants or parts of plants (G), or may be recorded as records for a number of single, individual plants or parts of plants (S). In most cases, “G” provides a single record per variety and it is not possible or necessary to apply statistical methods in a plant-by-plant analysis for the assessment of distinctness. | |
|  |  |
|  | In cases where more than one method of observing the characteristic is indicated in the Table of Characteristics (e.g. VG/MG), guidance on selecting an appropriate method is provided in document TGP/9, Section 4.2. |
|  |  |
| *4.2* | *Uniformity* |
|  |  |
| 4.2.1 | It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines: |
|  |  |
| |  | | --- | | 4.2.2 | | |  | | --- | | These Test Guidelines have been developed for the examination of vegetatively propagated varieties. For varieties with other types of propagation, the recommendations in the General Introduction and document TGP/13 "Guidance for new types and species" Section 4.5 "Testing Uniformity" should be followed. | |
|  |  |
| 4.2.3 | |  | | --- | | For the assessment of uniformity of vegetatively propagated varieties, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 3 plants, no off-types are allowed. | |
|  |  |
| *4.3* | *Stability* |
|  |  |
| 4.3.1 | In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable. |
|  |  |
| 4.3.2 | Where appropriate, or in cases of doubt, stability may be further examined by testing a new seed or plant stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied. |

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| 5. | Grouping of Varieties and Organization of the Growing Trial |
|  |  |
| 5.1 | The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics. |
|  |  |
| 5.2 | Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together. |
|  |  |

|  |  |
| --- | --- |
| 5.3 | The following have been agreed as useful grouping characteristics: |
|  | |  |  |  | | --- | --- | --- | |  |  |  | | |  | | --- | | (a) | |  | |  | | --- | | Fruit: size (characteristic 22) | | | |  | | --- | | (b) | |  | |  | | --- | | Fruit: shape in ventral view (characteristic 26) | | | |  | | --- | | (c) | |  | |  | | --- | | Fruit: ground color of skin (characteristic 34) | | | |  | | --- | | (d) | |  | |  | | --- | | Fruit: main color of flesh (characteristic 39) | | | |  | | --- | | (e) | |  | |  | | --- | | Fruit: firmness (characteristic 42) | | | |  | | --- | | (f) | |  | |  | | --- | | Time of beginning of flowering (characteristic 46) | | | |  | | --- | | (g) | |  | |  | | --- | | Time of beginning of fruit ripening (characteristic 47) | | | |  |  | | --- | --- | | |  | | --- | |  | | | | | |
| 5.4 | Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 “Examining Distinctness”. |

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| --- | --- |
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|  |  |
| 6. | Introduction to the Table of Characteristics |
|  |  |
| *6.1* | *Categories of Characteristics* |
| 6.1.1 | Standard Test Guidelines Characteristics |
|  | Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances. |
| 6.1.2 | Asterisked Characteristics |
|  | Asterisked characteristics (denoted by \*) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate. |
| *6.2* | *States of Expression and Corresponding Notes* |

|  |  |
| --- | --- |
| 6.2.1 | States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description. |
| 6.2.2 | All relevant states of expression are presented in the characteristic. |
|  |  |
| 6.2.3 | Further explanation of the presentation of states of expression and notes is provided in document TGP/7 “Development of Test Guidelines”. |
| *6.3* | *Types of Expression* |
|  | An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo-qualitative) is provided in the General Introduction. |
| *6.4* | *Example Varieties* |
|  | Where appropriate, example varieties are provided to clarify the states of expression of each characteristic. |

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| --- | --- |
| *6.5* | *Legend* |
|  |  |
| |  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/Nota | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | | **1** | | |  | | --- | | **2** | | |  | | --- | | **3** | | |  | | --- | | **4** | | |  | | --- | | **5** | | |  | | --- | | **6** | | |  | | --- | | **7** | | | | | |  |  | |  | | --- | | **Name of characteristics in English** | | | |  | | --- | | **Nom du caractère en français** | | | |  | | --- | | **Name des Merkmals auf Deutsch** | | |  | | --- | | **Nombre del carácter en español** | |  |  | |  |  | |  | | --- | | states of expression | | | |  | | --- | | types d’expression | | | |  | | --- | | Ausprägungsstufen | | |  | | --- | | tipos de expresión | | |  | | --- | |  | |  | |  |  |  |  |  |  |  |  |  |  | | |
| |  |  |  |  | | --- | --- | --- | --- | | 1 | Characteristic number | | | |  |  |  |  | | 2 | (\*) | Asterisked characteristic | – see Chapter 6.1.2 | |  |  |  |  | | 3 | Type of expression | | | |  | QL | Qualitative characteristic | – see Chapter 6.3 | |  | QN | Quantitative characteristic | – see Chapter 6.3 | |  | PQ | Pseudo-qualitative characteristic | – see Chapter 6.3 | |  |  |  |  | | 4 | Method of observation (and type of plot, if applicable) | | | |  | MG, MS, VG, VS | | – see Chapter 4.1.5 | |  |  |  |  | | 5 | |  | | --- | | (+) | | |  |  | | --- | --- | | |  | | --- | | See Explanations on the Table of Characteristics in Chapter 8.2 | | | | |  |  |  |  | | 6 | |  | | --- | | (a)-(e) | | |  |  | | --- | --- | | |  | | --- | | See Explanations on the Table of Characteristics in Chapter 8.1 | | | | |  |  |  |  | | 7 | |  | | --- | | Growth stage key See Explanations on the Table of Characteristics in Chapter 8.3 | | | | | |

|  |  |
| --- | --- |
| 7. | Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres |
|  |  |

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1.** |  | **QN** | **VG** | **(+)** |  |  | | | |
|  |  | |  | | --- | | **Tree: vigor** | | |  | |  |  |  |  |
|  |  | very weak | |  | |  |  |  | 1 |
|  |  | weak | |  | |  |  | Frisco, PA2UNIBO | 2 |
|  |  | medium | |  | |  |  | Early Korwik, Glenred | 3 |
|  |  | strong | |  | |  |  | Louis, Rosilam | 4 |
|  |  | very strong | |  | |  |  | Babelle, Regina | 5 |
| **2.** | **(\*)** | **PQ** | **VG** | **(+)** | **(a)** | **BBCH00** | | | |
|  |  | |  | | --- | | **Tree: habit** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | upright | |  | |  |  | Baïa, Lapins, Melitopol’skaya rannyaya | 1 |
|  |  | semi-upright | |  | |  |  | Burlat, Napoléon | 2 |
|  |  | spreading | |  | |  |  | Fertard, Sumtare, Vera | 3 |
|  |  | drooping | |  | |  |  | Annabella, Vanda | 4 |
| **3.** | **(\*)** | **QN** | **VG** | **(+)** | **(a)** | **BBCH00** | | | |
|  |  | |  | | --- | | **Tree: density of branching** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very sparse | |  | |  |  | Baïa | 1 |
|  |  | sparse | |  | |  |  | Merton Glory, Rainier | 2 |
|  |  | medium | |  | |  |  | Firelam, Hedelfinger Riesenkirsche | 3 |
|  |  | dense | |  | |  |  | Glenoia | 4 |
|  |  | very dense | |  | |  |  | Alex, Emma, Fertard | 5 |
| **4.** |  | **QN** | **MG/VG** |  | **(a)** | **BBCH00** | | | |
|  |  | |  | | --- | | **One-year-old shoot: number of lenticels** | | |  | |  |  |  |  |
|  |  | very few | |  | |  |  | Ferdouce, Karl | 1 |
|  |  | few | |  | |  |  | Kordia, PA4UNIBO, Sam | 2 |
|  |  | medium | |  | |  |  | Hedelfinger Riesenkirsche,  Pacific Red, Van | 3 |
|  |  | many | |  | |  |  | Krupnoplodnaya, Querfurter Königskirsche, Rosilam | 4 |
|  |  | very many | |  | |  |  | Cambrina, Royal Bailey | 5 |
| **5.** |  | **QN** | **VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **One-year-old shoot: position of vegetative bud in relation to shoot** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | adpressed | |  | |  |  | Duroni 3 | 1 |
|  |  | erect | |  | |  |  | Rivedel | 2 |
|  |  | semi-erect | |  | |  |  | Magar, Rita, Sunburst | 3 |
| **6.** |  | **QN** | **VG** |  |  | **BBCH33** | | | |
|  |  | |  | | --- | | **Young shoot: intensity of anthocyanin coloration of apex** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | absent or very weak | |  | |  |  | Drogans  Gelbe Knorpelkirsche, Royal Helen | 1 |
|  |  | weak | |  | |  |  | Emma, Merton Glory, Van | 2 |
|  |  | medium | |  | |  |  | Areko, Napoléon, Rebekka | 3 |
|  |  | strong | |  | |  |  | Namosa, Nimba, Rivan | 4 |
|  |  | very strong | |  | |  |  | Aida, Big Star,  Merton Heart, Pat | 5 |
| **7.** |  | **QN** | **VG** |  |  | **BBCH33** | | | |
|  |  | |  | | --- | | **Young shoot: pubescence of apex** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | absent or very weak | |  | |  |  | PA2UNIBO | 1 |
|  |  | weak | |  | |  |  | Habunt, Hedelfinger Riesenkirsche, Van | 2 |
|  |  | medium | |  | |  |  | Henriette, Kassins Frühe | 3 |
|  |  | strong | |  | |  |  | Burlat, Early Rivers, Rocket | 4 |
|  |  | very strong | |  | |  |  | Rosie, Swing | 5 |
| **8.** |  | **PQ** | **VG** | **(+)** |  | **BBCH50** | | | |
|  |  | |  | | --- | | **Fruiting spur: shape of apex** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | acute | |  | |  |  | Bedel, Santina | 1 |
|  |  | obtuse | |  | |  |  | Magar, Rivedel | 2 |
|  |  | rounded | |  | |  |  | Duroni 3, Van | 3 |
| **9.** |  | **QN** | **MG/VG** |  | **(b)** | **BBCH39** | | | |
|  |  | |  | | --- | | **Leaf blade: length** | | |  | |  |  |  |  |
|  |  | very short | |  | |  |  |  | 1 |
|  |  | very short to short | |  | |  |  | Noire de Meched | 2 |
|  |  | short | |  | |  |  | Cambrina, Sumtare, Szomolyai fekete | 3 |
|  |  | short to medium | |  | |  |  | Géant d'Hedelfingen | 4 |
|  |  | medium | |  | |  |  | Karl, Napoléon, Vanda | 5 |
|  |  | medium to long | |  | |  |  | PC7146-8,  Starking Hardy Giant | 6 |
|  |  | long | |  | |  |  | Feria, Merton Crane | 7 |
|  |  | long to very long | |  | |  |  | Babelle, Rubilam | 8 |
|  |  | very long | |  | |  |  | Habunt | 9 |
| **10.** |  | **QN** | **MG/VG** |  | **(b)** | **BBCH39** | | | |
|  |  | |  | | --- | | **Leaf blade: width** | | |  | |  |  |  |  |
|  |  | very narrow | |  | |  |  |  | 1 |
|  |  | very narrow to narrow | |  | |  |  | Saint Genis Laval | 2 |
|  |  | narrow | |  | |  |  | Sumtare, Sylvia | 3 |
|  |  | narrow to medium | |  | |  |  | Royal Marie | 4 |
|  |  | medium | |  | |  |  | Guillaume, Poisdel, Stella | 5 |
|  |  | medium to broad | |  | |  |  | PA2UNIBO | 6 |
|  |  | broad | |  | |  |  | Badacsonyi,  Germersdorfi 45, Glenoia, Merton Crane | 7 |
|  |  | broad to very broad | |  | |  |  | PA1UNIBO, Rosilam | 8 |
|  |  | very broad | |  | |  |  | Babelle | 9 |
| **11.** | **(\*)** | **QN** | **MG/VG** |  | **(b)** | **BBCH39** | | | |
|  |  | |  | | --- | | **Leaf blade: ratio length/width** | | |  | |  |  |  |  |
|  |  | very low | |  | |  |  |  | 1 |
|  |  | very low to low | |  | |  |  | Emma | 2 |
|  |  | low | |  | |  |  | Badacsonyi, Hudson | 3 |
|  |  | low to medium | |  | |  |  | Rocket | 4 |
|  |  | medium | |  | |  |  | Bing, Merton Crane, Walter | 5 |
|  |  | medium to high | |  | |  |  | Glenoia | 6 |
|  |  | high | |  | |  |  | Hedelfinger Riesenkirsche, Poisdel, Sylvia, Vanda | 7 |
|  |  | high to very high | |  | |  |  | Karl, PC7146-8 | 8 |
|  |  | very high | |  | |  |  | Babelle, Habunt | 9 |
| **12.** |  | **QN** | **VG** |  | **(b)** | **BBCH39** | | | |
|  |  | |  | | --- | | **Leaf blade: intensity of green color of upper side** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very light | |  | |  |  | Bigarreau d’Or | 1 |
|  |  | light | |  | |  |  | Cambrina, Sumtare | 2 |
|  |  | medium | |  | |  |  | Napoléon, PA5UNIBO, Vanda | 3 |
|  |  | dark | |  | |  |  | Burlat, Royal Hazel | 4 |
|  |  | very dark | |  | |  |  | Big Star, Frisco | 5 |
| **13.** |  | **QN** | **MG/VG** |  | **(b)** | **BBCH39** | | | |
|  |  | |  | | --- | | **Leaf: length of petiole** | | |  | |  |  |  |  |
|  |  | very short | |  | |  |  |  | 1 |
|  |  | very short to short | |  | |  |  | Nimba, Redlam | 2 |
|  |  | short | |  | |  |  | Sylvia, Van | 3 |
|  |  | short to medium | |  | |  |  | Glenoia | 4 |
|  |  | medium | |  | |  |  | Sam, Stella | 5 |
|  |  | medium to long | |  | |  |  | PA6UNIBO | 6 |
|  |  | long | |  | |  |  | Badacsonyi,  Merton Crane | 7 |
|  |  | long to very long | |  | |  |  | 13N0770, PA5UNIBO | 8 |
|  |  | very long | |  | |  |  |  | 9 |
| **14.** | **(\*)** | **QN** | **MG/VG** |  | **(b)** | **BBCH39** | | | |
|  |  | |  | | --- | | **Leaf: ratio length of blade / length of petiole** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very low | |  | |  |  |  | 1 |
|  |  | very low to low | |  | |  |  | Tardif de Vignola | 2 |
|  |  | low | |  | |  |  | Badacsonyi, Lambert, PC7146-8 | 3 |
|  |  | low to medium | |  | |  |  | Big Star | 4 |
|  |  | medium | |  | |  |  | Burlat, Sam | 5 |
|  |  | medium to high | |  | |  |  | Rosie | 6 |
|  |  | high | |  | |  |  | Hedelfinger Riesenkirsche, Stella | 7 |
|  |  | high to very high | |  | |  |  | Tip Top | 8 |
|  |  | very high | |  | |  |  | Redlam | 9 |
| **15.** |  | **QN** | **VG** |  | **(b)** | **BBCH39** | | | |
|  |  | |  | | --- | | **Leaf: predominant number of nectaries** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | two | |  | |  |  | Narana | 1 |
|  |  | more than two | |  | |  |  | ZAI107CZ | 2 |
| **16.** |  | **PQ** | **VG** |  | **(b)** | **BBCH39** | | | |
|  |  | |  | | --- | | **Leaf: color of nectaries** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | greenish yellow | |  | |  |  | Drogans Gelbe Knorpelkirsche, Firelam, Van | 1 |
|  |  | orange yellow | |  | |  |  | Hudson, Reverchon, Royal Hazel | 2 |
|  |  | red | |  | |  |  | Burlat, Early Rivers, Germersdorfi 45, Glenoia, Sylvia | 3 |
|  |  | purple | |  | |  |  | Gege, Paulus, Rocket | 4 |
| **17.** |  | **QN** | **VG** | **(+)** |  | **BBCH 65** | | | |
|  |  | |  | | --- | | **Anthers: position in relation to the top of petals** | | |  | |  |  |  |  |
|  |  | below | |  | |  |  | Burlat, PA7UNIBO | 1 |
|  |  | same level | |  | |  |  | Redlam | 2 |
|  |  | above | |  | |  |  | Royal Hazel | 3 |
| **18.** |  | **QN** | **VG** | **(+)** |  | **BBCH 65** | | | |
|  |  | |  | | --- | | **Stigma: position in relation to anthers** | | |  | |  |  |  |  |
|  |  | below | |  | |  |  | Napoléon, PA6UNIBO | 1 |
|  |  | same level | |  | |  |  | Tip Top, Van | 2 |
|  |  | above | |  | |  |  | Burlat, Redlam | 3 |
| **19.** |  | **QN** | **MG/VG** | **(+)** | **(c)** | **BBCH 65** | | | |
|  |  | |  | | --- | | **Flower: diameter** | | |  | |  |  |  |  |
|  |  | very small | |  | |  |  |  | 1 |
|  |  | small | |  | |  |  | Annus, Szomolyai fekete | 2 |
|  |  | medium | |  | |  |  | Sylvia, Van | 3 |
|  |  | large | |  | |  |  | Aida, Burlat | 4 |
|  |  | very large | |  | |  |  | Rosilam, Walter | 5 |
| **20.** |  | **PQ** | **MG** | **(+)** | **(c)** | **BBCH 65** | | | |
|  |  | |  | | --- | | **Flower: shape of petal** | | |  | |  |  |  |  |
|  |  | circular | |  | |  |  | Kordia, Rosie, Schneiders spaete Knorpelkirsche | 1 |
|  |  | medium obovate | |  | |  |  | Burlat, Royal Hazel, Sunburst | 2 |
|  |  | broad obovate | |  | |  |  | Firelam, Hedelfinger Riesenkirsche, Van | 3 |
| **21.** |  | **QN** | **VG** | **(+)** | **(c)** | **BBCH 65** | | | |
|  |  | |  | | --- | | **Flower: arrangement of petals** | | |  | |  |  |  |  |
|  |  | free | |  | |  |  | Burlat, Royal Hazel, Sunburst | 1 |
|  |  | intermediate | |  | |  |  | Germersdorfi 45, Nimba, Van | 2 |
|  |  | overlapping | |  | |  |  | Hudson, Royal Edie | 3 |
| **22.** | **(\*)** | **QN** | **MG/VG** | **(+)** | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: size** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very small | |  | |  |  | Munchenberger, Szomolyai fekete | 1 |
|  |  | very small to small | |  | |  |  | Cristobalina,  Merton Crane | 2 |
|  |  | small | |  | |  |  | Ulster | 3 |
|  |  | small to medium | |  | |  |  | Alex, Bing | 4 |
|  |  | medium | |  | |  |  | Burlat, Rainier, Tip Top | 5 |
|  |  | medium to large | |  | |  |  | Belge, Sunburst | 6 |
|  |  | large | |  | |  |  | Folfer, Rosie | 7 |
|  |  | large to very large | |  | |  |  | Baïa, Louis | 8 |
|  |  | very large | |  | |  |  |  | 9 |
| **23.** |  | **QN** | **MG/VG** |  | **(d), (e)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: height** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very short | |  | |  |  | PA1UNIBO, Van | 1 |
|  |  | short | |  | |  |  | Burlat, Sunburst | 2 |
|  |  | medium | |  | |  |  | Reverchon | 3 |
|  |  | large | |  | |  |  | Ferdiva, Hedelfinger Riesenkirsche | 4 |
|  |  | very large | |  | |  |  | Rocket, Summit | 5 |
| **24.** |  | **QN** | **MG/VG** |  | **(d), (e)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: width (in ventral view)** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very narrow | |  | |  |  | Hedelfinger Riesenkirsche | 1 |
|  |  | narrow | |  | |  |  | Ferdiva, Walter | 2 |
|  |  | medium | |  | |  |  | Burlat, Reverchon | 3 |
|  |  | broad | |  | |  |  | Feroni, Summit | 4 |
|  |  | very broad | |  | |  |  | PA6UNIBO, Sunburst | 5 |
| **25.** |  | **QN** | **MG/VG** |  | **(d), (e)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: ratio height/width (in ventral view)** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very low | |  | |  |  | Masdel, Sunburst | 1 |
|  |  | low | |  | |  |  |  | 2 |
|  |  | medium | |  | |  |  | Rocket, Summit | 3 |
|  |  | high | |  | |  |  |  | 4 |
|  |  | very high | |  | |  |  | Ferdiva, Hedelfinger Riesenkirsche | 5 |
| **26.** | **(\*)** | **PQ** | **VG** | **(+)** | **(d), (e)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: shape in ventral view** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | oblate | |  | |  |  | Alex, Burlat, Glenoia | 1 |
|  |  | reniform | |  | |  |  | Big Star, Royal Edie, Van, Vera | 2 |
|  |  | cordate | |  | |  |  | Louis, PA7UNIBO, Summit | 3 |
|  |  | broad elliptic | |  | |  |  | Ferdiva, Hedelfinger Riesenkirsche, Walter | 4 |
|  |  | circular | |  | |  |  | Reverchon | 5 |
| **27.** |  | **PQ** | **VG** | **(+)** | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: shape at stalk end** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | circular | |  | |  |  | Duroni 3, Hamid | 1 |
|  |  | elliptic | |  | |  |  | Pacific Red, Swing | 2 |
|  |  | angular | |  | |  |  | PA7UNIBO | 3 |
| **28.** |  | **PQ** | **VG** | **(+)** | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: shape of base in ventral view** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | truncate or weakly cordate | |  | |  |  | Duroni 3 | 1 |
|  |  | medium cordate | |  | |  |  | Burlat, Van | 2 |
|  |  | strongly cordate | |  | |  |  | PA7UNIBO, Summit | 3 |
| **29.** |  | **PQ** | **VG** | **(+)** | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: shape of apex in dorsal view** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | concave | |  | |  |  | Fertille, Redlam | 1 |
|  |  | flat | |  | |  |  | Henriette, Van | 2 |
|  |  | convex | |  | |  |  | PA6UNIBO, Sunburst | 3 |
| **30.** |  | **QN** | **VG** |  | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: suture** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | absent or slightly conspicuous | |  | |  |  | Klara, Rosalolam | 1 |
|  |  | moderately conspicuous | |  | |  |  | Cambrina, Rocket, Stella | 2 |
|  |  | strongly conspicuous | |  | |  |  | Betti, Regina, SPC106 | 3 |
| **31.** | **(\*)** | **QN** | **MG/VG** |  | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: length of stalk** | | |  | |  |  |  |  |
|  |  | very short | |  | |  |  | Folfer, Walter | 1 |
|  |  | very short to short | |  | |  |  | Rubilam, Van | 2 |
|  |  | short | |  | |  |  | Babelle, Burlat,  Royal Edie,  Szomolyai fekete | 3 |
|  |  | short to medium | |  | |  |  | Duroni 3, Frisco | 4 |
|  |  | medium | |  | |  |  | Hedelfinger Riesenkirsche, Henriette, Summit | 5 |
|  |  | medium to long | |  | |  |  | Regina, SPC106, Sunburst | 6 |
|  |  | long | |  | |  |  | Belge, Kordia,  Noire de Meched | 7 |
|  |  | long to very long | |  | |  |  | Hâtive de Bâle, Vanda | 8 |
|  |  | very long | |  | |  |  | Delflash, Louis | 9 |
| **32.** |  | **QN** | **MG/VG** |  | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: thickness of stalk** | | |  | |  |  |  |  |
|  |  | very thin | |  | |  |  | PA6UNIBO | 1 |
|  |  | thin | |  | |  |  | Ferdiva, Hedelfinger Riesenkirsche, Kordia | 2 |
|  |  | medium | |  | |  |  | Germersdorfi 45, Sunburst, Vanda | 3 |
|  |  | thick | |  | |  |  | Lalastar, Van | 4 |
|  |  | very thick | |  | |  |  | Black Star, Folfer | 5 |
| **33.** |  | **QN** | **VG** |  | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: adherence to stalk** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | absent or weak | |  | |  |  | ZAI107CZ | 1 |
|  |  | medium | |  | |  |  | Pacific Red, ZAI89CZ | 2 |
|  |  | strong | |  | |  |  | Brooks, Redlam | 3 |
| **34.** | **(\*)** | **PQ** | **MG/VG** |  | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: ground color of skin** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | yellow | |  | |  |  | Bigarreau d’Or, Dönnissens Gelbe Knorpelkirsche | 1 |
|  |  | orange red | |  | |  |  |  | 2 |
|  |  | light red | |  | |  |  | Krupnoplodnaya | 3 |
|  |  | red | |  | |  |  | Alex, Sunburst | 4 |
|  |  | brown red | |  | |  |  | Burlat, Kordia, Lapins | 5 |
|  |  | dark red | |  | |  |  | Hedelfinger Riesenkirsche, Stella | 6 |
|  |  | blackish | |  | |  |  | Annabella,  Knauffs Schwarze, Namosa | 7 |
| **35.** | **(\*)** | **QN** | **VG** |  | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: relative area of over color** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | absent or very small | |  | |  |  | Bigarreau d’Or | 1 |
|  |  | small | |  | |  |  | Napoléon | 2 |
|  |  | medium | |  | |  |  | Rosilam | 3 |
|  |  | large | |  | |  |  | ZAI99CZ | 4 |
|  |  | very large | |  | |  |  | Burlat | 5 |
| **36.** |  | **QN** | **VG** |  | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: size of lenticels on skin** | | |  | |  |  |  |  |
|  |  | very small | |  | |  |  | PC7146-8 | 1 |
|  |  | small | |  | |  |  | Emma, Hedelfinger Riesenkirsche | 2 |
|  |  | medium | |  | |  |  | Frisco, Guillaume | 3 |
|  |  | large | |  | |  |  | Reverchon, Rosie | 4 |
|  |  | very large | |  | |  |  | Royal Hazel | 5 |
| **37.** |  | **QN** | **MG/VG** |  | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: number of lenticels on skin** | | |  | |  |  |  |  |
|  |  | absent or very few | |  | |  |  | Henriette, PC7146-8 | 1 |
|  |  | few | |  | |  |  | Burlat, Rita, Swing | 2 |
|  |  | medium | |  | |  |  | Babelle, Sunburst | 3 |
|  |  | many | |  | |  |  | Marmotte, Royal Helen, Vera | 4 |
|  |  | very many | |  | |  |  | Royal Hazel | 5 |
| **38.** |  | **QN** | **VG** | **(+)** | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: thickness of skin** | | |  | |  |  |  |  |
|  |  | thin | |  | |  |  | Glenred, Müncheberger Frühernte, Royal Edie | 1 |
|  |  | intermediate | |  | |  |  | Big Star, Cambrina, Germersdorfi 45 | 2 |
|  |  | thick | |  | |  |  | Carmen, Walter | 3 |
| **39.** | **(\*)** | **PQ** | **VG** | **(+)** | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: main color of flesh** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | whitish | |  | |  |  | Baïa, Napoléon, Rosilam | 1 |
|  |  | yellow | |  | |  |  | Cambrina, Dönnissens Gelbe Knorpelkirsche | 2 |
|  |  | pink | |  | |  |  | Glenred, Reverchon, Sunburst | 3 |
|  |  | medium red | |  | |  |  | Germersdorfi 45, Hedelfinger Riesenkirsche, Redlam, Swing | 4 |
|  |  | dark red | |  | |  |  | Emma, Fernbird 765, Rubin, Szomolyai fekete | 5 |
| **40.** |  | **PQ** | **VG** |  | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: secondary color of flesh** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | none | |  | |  |  | Belge, Van | 1 |
|  |  | whitish | |  | |  |  | Fernbird 765 | 2 |
|  |  | yellow | |  | |  |  |  | 3 |
|  |  | pink | |  | |  |  |  | 4 |
|  |  | medium red | |  | |  |  |  | 5 |
|  |  | dark red | |  | |  |  |  | 6 |
| **41.** |  | **PQ** | **VG** |  | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: color of juice** | | |  | |  |  |  |  |
|  |  | colorless | |  | |  |  | Dönnissens Gelbe Knorpelkirsche, Rosilam | 1 |
|  |  | light yellow | |  | |  |  | 13N0770, Baïa, Napoléon | 2 |
|  |  | pink | |  | |  |  | Areko, Reverchon, Rocket, Sunburst | 3 |
|  |  | red | |  | |  |  | Betti, PA2UNIBO, Sam, Van | 4 |
|  |  | purple | |  | |  |  | Emma, Hedelfinger Riesenkirsche, Kavics, PA3UNIBO | 5 |
| **42.** | **(\*)** | **QN** | **MG/VG** |  | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: firmness** | | |  | |  |  |  |  |
|  |  | very soft | |  | |  |  | Early Rivers | 1 |
|  |  | soft | |  | |  |  | Narana, Sunburst | 2 |
|  |  | medium | |  | |  |  | Bedel, Carmen, Emma, Germersdorfer,  PC7146-8, Reverchon, Van | 3 |
|  |  | firm | |  | |  |  | Folfer, Kavics, Kordia, PA2UNIBO, Regina, Sumtare | 4 |
|  |  | very firm | |  | |  |  | Balrine, Ferdiva | 5 |
| **43.** | **(\*)** | **QN** | **MG/VG** | **(+)** | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Stone: size** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very small | |  | |  |  | Rosie | 1 |
|  |  | small | |  | |  |  | Van, ZAI107CZ | 2 |
|  |  | medium | |  | |  |  | Burlat, Early Korwik | 3 |
|  |  | large | |  | |  |  | Feroni, PA7UNIBO | 4 |
|  |  | very large | |  | |  |  | Carmen, Rocket | 5 |
| **44.** |  | **QN** | **MG/VG** |  | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Fruit: ratio size of fruit/size of stone** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very low | |  | |  |  | Brooks, Large red | 1 |
|  |  | low | |  | |  |  |  | 2 |
|  |  | medium | |  | |  |  | Hedelfinger Riesenkirsche, Techlovan | 3 |
|  |  | high | |  | |  |  |  | 4 |
|  |  | very high | |  | |  |  | Sumtare, Sunburst | 5 |
| **45.** | **(\*)** | **PQ** | **VG** |  | **(d)** | **BBCH87** | | | |
|  |  | |  | | --- | | **Stone: shape in ventral view** | | |  | |  |  |  |  |
|  |  | elliptic | |  | |  |  | Kordia, Napoléon | 1 |
|  |  | broad elliptic | |  | |  |  | Rita | 2 |
|  |  | circular | |  | |  |  | Germersdorfi 45, Van | 3 |
|  |  | ovate | |  | |  |  |  | 4 |
| **46.** | **(\*)** | **QN** | **MG/VG** | **(+)** |  | **BBCH61** | | | |
|  |  | |  | | --- | | **Time of beginning of flowering** | | |  | |  |  |  |  |
|  |  | very early | |  | |  |  | Cristobalina, Royal Hazel | 1 |
|  |  | very early to early | |  | |  |  | Christiana, Folfer, Müncheberger Frühernte, Panaro 1 | 2 |
|  |  | early | |  | |  |  | Marmotte, PA2UNIBO, Sumste, Sumtare | 3 |
|  |  | early to medium | |  | |  |  | Burlat, Lapins | 4 |
|  |  | medium | |  | |  |  | Merton Glory, Napoléon, Royal Helen, Sumele, Sunburst | 5 |
|  |  | medium to late | |  | |  |  | Carmen, Karl, Kordia, Rubilam | 6 |
|  |  | late | |  | |  |  | Germersdorfi 45, Habunt, Noire de Meched, Regina, Reverchon | 7 |
|  |  | late to very late | |  | |  |  | Betti, Duroni 3 | 8 |
|  |  | very late | |  | |  |  | Hamid, Klara | 9 |
| **47.** | **(\*)** | **QN** | **MG/VG** | **(+)** |  | **BBCH87** | | | |
|  |  | |  | | --- | | **Time of beginning of fruit ripening** | | |  | |  |  |  |  |
|  |  | very early | |  | |  |  | Cristobalina, Ferprime, Hâtive de Bâle, Müncheberger Frühernte | 1 |
|  |  | very early to early | |  | |  |  | Nimba, Rivedel | 2 |
|  |  | early | |  | |  |  | Burlat, Early Rivers, Panaro 1, Valerij Cskalov | 3 |
|  |  | early to medium | |  | |  |  | Bedel, Folfer | 4 |
|  |  | medium | |  | |  |  | Fertille, Guillaume, Summit, Sunburst | 5 |
|  |  | medium to late | |  | |  |  | Babelle, Duroni 3, Glenoia, PA5UNIBO | 6 |
|  |  | late | |  | |  |  | Belge, Hedelfinger Riesenkirsche, Katalin, Klara, Kordia | 7 |
|  |  | late to very late | |  | |  |  | Fertard, Regina, Sumtare | 8 |
|  |  | very late | |  | |  |  | Staccato | 9 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  | | --- | --- | --- | --- | | 8. | Explanations on the Table of Characteristics | | | |  | | | | | *8.1* | *Explanations covering several characteristics* | | | |  | |  | | --- | |  | | | | |  |  |  |  | |  | Characteristics containing the following key in the Table of Characteristics should be examined as indicated below: | | | |  | | | | | |  | | --- | | (a) | | |  | | --- | | Tree / One year old shoot: unless otherwise stated, all observations on the tree and on the one-year old shoot shoul be made during winter, on trees that have fruited at least once. | | | | |  |  |  |  | | |  | | --- | | (b) | | |  | | --- | | Leaf: unless otherwise stated, all observations should be made on fully developed leaves on the middle of a fruiting spur in summer. | | | | |  |  |  |  | | |  | | --- | | (c) | | |  | | --- | | Flower: unless otherwise stated, all observations on the flower should be made on fully developed flowers at the beginning of anther dehiscence. | | | | |  |  |  |  | | |  | | --- | | (d) | | |  | | --- | | Fruit and stone: all observations on the fruit and the stone should be made at full maturity (BBCH 87). | | | | |  |  |  |  | | |  | | --- | | (e) | | |  | | --- | | Ventral view of the fruit  wordml://76.png | | | | |  |  |  |  | |
| |  |  |  | | --- | --- | --- | | |  | | --- | | *8.2* | | *Explanations for individual characteristics* | |  | | | |  | | --- | | Ad. 1: Tree: vigor  The tree vigor should be considered as the overall abundance of vegetative growth, observed when the tree is in peak vegetative growth. | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 2: Tree: habit  See Ad. 3  The observations should be made during winter after at least one satisfactory crop of fruit.     |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  | | --- | --- | --- | --- | | wordml://77.png | wordml://78.png | wordml://79.png | wordml://80.png | | 1 | 2 | 3 | 4 | | upright | semi-upright | spreading | drooping | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 3: Tree: density of branching  Observations should be carried out in the winter, on scaffold branches with the density of branching being indicated by the number of lateral branches and shoots, excluding fruiting shoots.     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | wordml://81.png | wordml://82.png | wordml://83.png | wordml://84.png | wordml://85.png | | 1 | 2 | 3 | 4 | 5 | | very sparse | sparse | medium | dense | very dense | | | | | |

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| |  |  | | --- | --- | | |  | | --- | | Ad. 22: Fruit: size  Should be assessed by weighing fruit or mesuring fruit caliber. | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 26: Fruit: shape in ventral view   |  |  |  |  | | --- | --- | --- | --- | |  |  | ←           broadest part    → | | |  |  | below middle | at middle | | ratio height/width |  |  |  | | high |  | http://www.wipo.int/birt/images/2675/fruit_cordate.png   3 cordate |  | | medium |  | http://www.wipo.int/birt/images/2675/fruit_reniform.png   2 reniform | http://www.wipo.int/birt/images/2675/fruit_circular.png   5 circular | | low |  | http://www.wipo.int/birt/images/2675/fruit_oblate.png   1 oblate | http://www.wipo.int/birt/images/2675/fruit_broad_elliptic.png 4 broad elliptic | | | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 27: Fruit: shape at stalk end  The observation should be done from above.   |  |  |  | | --- | --- | --- | | wordml://109.png | wordml://110.png | wordml://111.png | | 1 | 2 | 3 | | circular | elliptic | angular | | | |

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Scientia Horticulturae (192), 141-147)    **BBCH code                     Description**    Principal growth Stage 0: bud development  00                                   Dormancy  01                                   Beginning bud swelling  03                                   End of leaf bud swelling  09                                   Green leaf tips visible    Principal growth Stage 1: leaf development  10                                   First leaves separating  11                                   First leaves unfolded  19                                   First leaves fully expanded    Principal growth Stage 3: shoot development  31                                   Beginning of shoot growth  32                                   20% of final shoots length  33                                   30% of final shoots length  3. . .                                 Stages continuous till. . .  39                                   90% of final shoots length    Principal growth Stage 5: reproductive development or inflorescence emergence  50                                   Dormancy, inflorescence bud closed  51                                   Inflorescence buds swelling  53                                   Bud burst  54                                   Inflorescence enclosed by light green scales  55                                   Single flower buds visible  56                                   Flower pedicel elongating  57                                   Sepals open  59                                   Balloon    Principal growth Stage 6: flowering  60                                   First flowers open  61                                   Beginning of flowering  62                                   20% of flowers open  63                                   30% of flowers open  64                                   40% of flowers open  65                                   Full flowering  67                                   Flower fading  69                                   End of flowering    Principal growth Stage 7: fruit development  71                                   Ovary growing  72                                   Sepals beginning to fall  73                                   Second fruit fall  75                                   50% of final fruit size  76                                   60% of final fruit size  77                                   70% of final fruit size  78                                   80% of final fruit size  79                                   90% of final fruit size    Principal growth Stage 8: ripening or maturity  81                                   Beginning of fruit colouring  85                                   Colouring advanced  87                                   Fruit ripe for picking    Principal growth Stage 9: senescence, beginning of dormancy  91                                   Shoot growth completed; foliage still fully green  92                                   Leaves begin to discolour  93                                   Beginning of leaf fall  95                                   50% of leaves fallen  97                                   All leaves fallen  wordml://118.png  wordml://119.png  wordml://120.png  wordml://121.png  *Example varieties synonyms and trademarks*     |  |  | | --- | --- | | **denomination** | **synonyme or trade mark** | | 13N0770 | Stardust | | Areko | Hamid | | Bedel | Bellise | | Early Rivers | Bigarreau précoce de Rivers, Guigne Early Rivers | | Kordia | Techlovicka II | | Magar | Baron, Garnet | | PA1UNIBO | Sweet Aryana | | PA2UNIBO | Sweet Lorenz | | PA3UNIBO | Sweet Gabriel | | PA4UNIBO | Sweet Valina | | PA5UNIBO | Sweet Saretta | | PA6UNIBO | Marysa | | PA7UNIBO | Sweet Stephany | | Panaro 1 | Sweet Early | | PC7146-8 | Benton | | Pico Colorado | Scarlet Peack | | Pico Negro | Black Peack | | Rivedel | Earlise | | Rosie | Rosie Rainier | | SPC106 | Sofia | | Sumele | Satin | | Sumpaca | Celeste | | Sumste | Samba | | Sumtare | Sweet Heart | | Valerij Cskalov | Valery Tschkalov | | ZAI107CZ | Royal Lafayette | | ZAI89CZ | Royal Hermione | | | |

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| |  |  | | --- | --- | | 10. | Technical Questionnaire | |
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| |  |  | | --- | --- | |  | Application date: (not to be filled in by the applicant) | | TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | | 1. | Subject of the Technical Questionnaire | | | | |  |  |  |  |  | |  | |  | | --- | | 1.1 | | Botanical name | |  | | --- | | *Prunus avium* (L.) L. | | |  | | --- | |  | | |  |  |  |  |  | |  | |  | | --- | | 1.2 | | Common name | |  | | --- | | Sweet Cherry | |  | |  |  |  | |  | | --- | |  | |  | |  |  |  |  |  | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | | 2. | Applicant | | | | |  |  |  |  |  | |  | Name | |  |  | |  |  |  |  |  | |  | Address | |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  |  | |  | Telephone No. | |  |  | |  |  |  |  |  | |  | Fax No. | |  |  | |  |  |  |  |  | |  | E-mail address | |  |  | |  |  |  |  |  | |  | Breeder (if different from | |  |  | |  | applicant) | |  |  | |  |  |  |  |  | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | | 3. | Proposed denomination and breeder's reference | | | | |  |  |  |  |  | |  | Proposed denomination | |  |  | |  | (if available) | |  |  | |  |  |  |  |  | |  | Breeder's reference | |  |  | |  |  |  |  |  | |

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | TECHNICAL QUESTIONNAIRE | | | Page {x} of {y} | Reference Number: | |  | | | | | | |  | | --- | | #4. | | Information on the breeding scheme and propagation of the variety | | | | |  |  |  | | | |  | 4.1 | Breeding scheme | | | |  | Variety resulting from: | | | | |  | |  |  | | --- | --- | |  |  | |  |  | | | | | |

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| |  |  |  | | --- | --- | --- | |  |  |  | |  | 4.2 | Method of propagating the variety | |  | |  |  |  | | --- | --- | --- | | |  | | --- | | 4.2.1 | | Other (Please provide details) | [ ] | |  |  |  | |  |  |  | |  |  |  | | | |  | |  |  | | --- | --- | | |  | | --- | |  | | | | |

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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** |  |  | | --- | | **(2)** | | |  | | --- | | **Tree: habit** | |  |  |
|  | |  | | --- | | upright | | |  | | --- | | Baïa, Lapins, Melitopol’skaya rannyaya | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | semi-upright | | |  | | --- | | Burlat, Napoléon | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | spreading | | |  | | --- | | Fertard, Sumtare, Vera | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | drooping | | |  | | --- | | Annabella, Vanda | | |  | | --- | | 4 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.2** |  |  | | --- | | **(22)** | | |  | | --- | | **Fruit: size** | |  |  |
|  | |  | | --- | | very small | | |  | | --- | | Munchenberger, Szomolyai fekete | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very small to small | | |  | | --- | | Cristobalina, Merton Crane | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | small | | |  | | --- | | Ulster | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | small to medium | | |  | | --- | | Alex, Bing | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Burlat, Rainier, Tip Top | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to large | | |  | | --- | | Belge, Sunburst | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | large | | |  | | --- | | Folfer, Rosie | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | large to very large | | |  | | --- | | Baïa, Louis | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very large | | |  | | --- | |  | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.3** |  |  | | --- | | **(26)** | | |  | | --- | | **Fruit: shape in ventral view** | |  |  |
|  | |  | | --- | | oblate | | |  | | --- | | Alex, Burlat, Glenoia | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | reniform | | |  | | --- | | Big Star, Royal Edie, Van, Vera | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | cordate | | |  | | --- | | Louis, PA7UNIBO, Summit | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | broad elliptic | | |  | | --- | | Ferdiva, Hedelfinger Riesenkirsche, Walter | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | circular | | |  | | --- | | Reverchon | | |  | | --- | | 5 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.4** |  |  | | --- | | **(34)** | | |  | | --- | | **Fruit: ground color of skin** | |  |  |
|  | |  | | --- | | yellow | | |  | | --- | | Bigarreau d’Or, Dönnissens Gelbe Knorpelkirsche | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | orange red | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | light red | | |  | | --- | | Krupnoplodnaya | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | red | | |  | | --- | | Alex, Sunburst | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | brown red | | |  | | --- | | Burlat, Kordia, Lapins | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | dark red | | |  | | --- | | Hedelfinger Riesenkirsche, Stella | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | blackish | | |  | | --- | | Annabella, Knauffs Schwarze, Namosa | | |  | | --- | | 7 [   ] | |
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|  | Characteristics | Example Varieties | Note |
| --- | --- | --- | --- |
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| |  | | --- | | **5.5** |  |  | | --- | | **(39)** | | |  | | --- | | **Fruit: main color of flesh** | |  |  |
|  | |  | | --- | | whitish | | |  | | --- | | Baïa, Napoléon, Rosilam | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | yellow | | |  | | --- | | Cambrina, Dönnissens Gelbe Knorpelkirsche | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | pink | | |  | | --- | | Glenred, Reverchon, Sunburst | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | medium red | | |  | | --- | | Germersdorfi 45, Hedelfinger Riesenkirsche, Redlam, Swing | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | dark red | | |  | | --- | | Emma, Fernbird 765, Rubin, Szomolyai fekete | | |  | | --- | | 5 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.6** |  |  | | --- | | **(42)** | | |  | | --- | | **Fruit: firmness** | |  |  |
|  | |  | | --- | | very soft | | |  | | --- | | Early Rivers | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | soft | | |  | | --- | | Narana, Sunburst | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Bedel, Carmen, Emma, Germersdorfer, PC7146-8, Reverchon, Van | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | firm | | |  | | --- | | Folfer, Kavics, Kordia, PA2UNIBO, Regina, Sumtare | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | very firm | | |  | | --- | | Balrine, Ferdiva | | |  | | --- | | 5 [   ] | |
|  |  |  |  |
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| |  | | --- | | **5.7** |  |  | | --- | | **(46)** | | |  | | --- | | **Time of beginning of flowering** | |  |  |
|  | |  | | --- | | very early | | |  | | --- | | Cristobalina, Royal Hazel | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very early to early | | |  | | --- | | Christiana, Folfer, Müncheberger Frühernte, Panaro 1 | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | early | | |  | | --- | | Marmotte, PA2UNIBO, Sumste, Sumtare | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | early to medium | | |  | | --- | | Burlat, Lapins | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Merton Glory, Napoléon, Royal Helen, Sumele, Sunburst | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to late | | |  | | --- | | Carmen, Karl, Kordia, Rubilam | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | late | | |  | | --- | | Germersdorfi 45, Habunt, Noire de Meched, Regina, Reverchon | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | late to very late | | |  | | --- | | Betti, Duroni 3 | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very late | | |  | | --- | | Hamid, Klara | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.8** |  |  | | --- | | **(47)** | | |  | | --- | | **Time of beginning of fruit ripening** | |  |  |
|  | |  | | --- | | very early | | |  | | --- | | Cristobalina, Ferprime, Hâtive de Bâle, Müncheberger Frühernte | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very early to early | | |  | | --- | | Nimba, Rivedel | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | early | | |  | | --- | | Burlat, Early Rivers, Panaro 1, Valerij Cskalov | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | early to medium | | |  | | --- | | Bedel, Folfer | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Fertille, Guillaume, Summit, Sunburst | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to late | | |  | | --- | | Babelle, Duroni 3, Glenoia, PA5UNIBO | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | late | | |  | | --- | | Belge, Hedelfinger Riesenkirsche, Katalin, Klara, Kordia | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | late to very late | | |  | | --- | | Fertard, Regina, Sumtare | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very late | | |  | | --- | | Staccato | | |  | | --- | | 9 [   ] | |
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| |  |  | | --- | --- | | 6. | Similar varieties and differences from these varieties | | |  | | --- | | *Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.* | | | | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | | Denomination(s) of variety(ies) similar to your candidate variety | | |  | | --- | | Characteristic(s) in which your candidate variety differs from the similar variety(ies) | | |  | | --- | | Describe the expression of the characteristic(s) for the **similar** variety(ies) | | |  | | --- | | Describe the expression of the characteristic(s) for **your** candidate variety | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | *Example* | |  | | --- | |  | | |  | | --- | |  | | |  | | --- | |  | | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | |  | Comments: | |

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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | |  | | --- | | #7. | | Additional information which may help in the examination of the variety | | | | |  |  |  | | | | 7.1 | In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety? | | | | |  | Yes | [ ] | No | [ ] | |  | (If yes, please provide details) | | | | | 7.2 | Are there any special conditions for growing the variety or conducting the examination? | | | | |  | Yes | [ ] | No | [ ] | |  | (If yes, please provide details) | | | | | 7.3 | Other information | | | | |  |  |  |  |  | |

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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 8. | Authorization for release | | | | | |  | (a) | Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health? | | | | |  |  | Yes | [ ] | No | [ ] | |  | (b) | Has such authorization been obtained? | | | | |  |  | Yes | [ ] | No | [ ] | |  | If the answer to (b) is yes, please attach a copy of the authorization. | | | | | |  |  |  |  |  |  | |
| |  |  | | --- | --- | | |  | | --- | | 9. Information on plant material to be examined or submitted for examination | | |  | | 9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc. | |  | | |  | | --- | | 9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to: | | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | (a) | Microorganisms (e.g. virus, bacteria, phytoplasma) | Yes [ ] | No [ ] |  | |  | (b) | Chemical treatment (e.g. growth retardant, pesticide) | Yes [ ] | No [ ] |  | |  | (c) | Tissue culture | Yes [ ] | No [ ] |  | |  | (d) | Other factors | Yes [ ] | No [ ] |  | |  | Please provide details for where you have indicated “yes”. | | | |  | |  |  | | | |  | | |  | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 10. | I hereby declare that, to the best of my knowledge, the information provided in this form is correct: | | | | | |  |  |  |  |  |  | |  |  |  | | |  | |  | Applicant’s name |  | |  |  |  |  |  |  | |  | Signature |  | Date |  |  | |  |  |  | |  |  | |  |  |  |  |  |  | |
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