|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | |  |  | **E** | |  |  |  | |  | wordml://75.png | |  | | --- | | **TG/35/8(proj.3)** | | **ORIGINAL:** English | | **DATE:** 2022-05-28 | | | **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-third session, to be held virtually,* | | |  | | --- | | *from 2022-07-11 to 2022-07-15* | | | | | | *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 | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 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............................................................................... | [30](#Section8) | |  | |  |  |  | | --- | --- | --- | | 8.1 | Explanations covering several characteristics........................................................................................... | [30](#Section8-1) | | |  | | --- | | 8.2 | | Explanations for individual characteristics................................................................................................. | [31](#Section8-2) | | | |  |  |  | | 9. | LITERATURE................................................................................................................... | [36](#Section9) | |  |  |  | | 10 | TECHNICAL QUESTIONNAIRE............................................................................................................ | [37](#Section10) | |  |  |  | |  | |  | | --- | |  | |  | | | |

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

|  |  |
| --- | --- |
|  |  |
|  |  |
| 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: | |
|  |  |
|  | |  | | --- | | 5 trees or 5 budsticks or 5 dormant shoots for grafting, sufficient to propagate 5 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. | |

|  |  |
| --- | --- |
|  |  |
|  |  |
| 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. |
|  |  |

|  |  |
| --- | --- |
| *3.4* | *Test Design* |
|  |  |
| 3.4.1 | |  | | --- | | Each test should be designed to result in a total of at least 5 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. |

|  |  |
| --- | --- |
|  |  |
|  |  |
| 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 5 plants or parts of plants taken from each of 5 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 5 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. |

|  |  |
| --- | --- |
| 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) | |  | |  | | --- | | Tree: type (characteristic 1) | | | |  | | --- | | (b) | |  | |  | | --- | | Fruit: size (characteristic 24) | | | |  | | --- | | (c) | |  | |  | | --- | | Fruit: shape in ventral view (characteristic 28) | | | |  | | --- | | (d) | |  | |  | | --- | | Fruit: ground color of skin (characteristic 36) | | | |  | | --- | | (e) | |  | |  | | --- | | Fruit: color of flesh (characteristic 41) | | | |  | | --- | | (f) | |  | |  | | --- | | Fruit: firmness (characteristic 43) | | | |  | | --- | | (g) | |  | |  | | --- | | Time of beginning of flowering (characteristic 49) | | | |  | | --- | | (h) | |  | |  | | --- | | Time of beginning of fruit ripening (characteristic 50) | | | |  |  | | --- | --- | | |  | | --- | |  | | | | | |
| 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”. |

|  |  |
| --- | --- |
|  |  |
|  |  |
| 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. |

|  |  |
| --- | --- |
| *6.5* | *Legend* |
|  |  |
| |  |  | English | | français | | deutsch | español | Example Varieties Exemples Be ejemplo | Note | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | | **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 | |  | | --- | | Not applicable | | | | | |

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

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1.** | **(\*)** | **QL** | **VG** |  | **(a)** |  | | | |
|  |  | |  | | --- | | **Tree: type** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | standard | |  | |  |  | Burlat | 1 |
|  |  | compact | |  | |  |  | Compact Lambert, Compact Stella | 2 |
| **2.** |  | **QN** | **VG** | **(+)** |  |  | | | |
|  |  | |  | | --- | | **Tree: vigor** | | |  | |  |  |  |  |
|  |  | absent or very weak | |  | |  |  | Royal Marie | 1 |
|  |  | weak | |  | |  |  | Frisco, Sweet Lorenz | 2 |
|  |  | medium | |  | |  |  | Early Korwiks, Glenred | 3 |
|  |  | strong | |  | |  |  | Louis, Rosilam | 4 |
|  |  | very strong | |  | |  |  | Babelle, Regina | 5 |
| **3.** | **(\*)** | **PQ** | **VG** | **(+)** | **(a)** | **BBCH00** | | | |
|  |  | |  | | --- | | **Only varieties with standard tree type: Tree: habit** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | upright | |  | |  |  | Baïa, Lapins, Melitopol’skaya rannyaya | 1 |
|  |  | semi-upright | |  | |  |  | Burlat, Napoléon | 2 |
|  |  | spreading | |  | |  |  | Fertard, Sumtare, Vera | 3 |
|  |  | drooping | |  | |  |  | Annabella, Vanda | 4 |
| **4.** | **(\*)** | **QN** | **VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **Tree: branching** | | |  | |  |  |  |  |
|  |  | absent or very weak | |  | |  |  | Baïa | 1 |
|  |  | weak | |  | |  |  | Merton Glory, Rainier | 2 |
|  |  | medium | |  | |  |  | Firelam, Hedelfinger Riesenkirsche | 3 |
|  |  | strong | |  | |  |  | Glenoia | 4 |
|  |  | very strong | |  | |  |  | Alex, Emma, Fertard | 5 |

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **5.** |  | **QN** | **MG/VG** |  | **(a)** |  | | | |
|  |  | |  | | --- | | **One-year-old shoot: number of lenticels** | | |  | |  |  |  |  |
|  |  | very few | |  | |  |  | Ferdouce, Karl | 1 |
|  |  | few | |  | |  |  | Kordia, Sam | 2 |
|  |  | medium | |  | |  |  | Hedelfinger Riesenkirsche, Van | 3 |
|  |  | many | |  | |  |  | Krupnoplodnaya, Querfurter Königskirsche | 4 |
|  |  | very many | |  | |  |  | Cambrina, Royal Bailey | 5 |
| **6.** |  | **QN** | **VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **One-year-old shoot: position of vegetative bud in relation to shoot** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | adpressed | |  | |  |  | Duroni3 | 1 |
|  |  | slightly held out | |  | |  |  | Earlise | 2 |
|  |  | markedly held out | |  | |  |  | Garnet, Rita, Sunburst | 3 |
| **7.** |  | **QN** | **VG** |  |  | **BBCH33** | | | |
|  |  | |  | | --- | | **Young shoot: anthocyanin coloration of apex** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | absent or very weak | |  | |  |  | Drogans Gelbe Knorpelkirsche | 1 |
|  |  | weak | |  | |  |  | Merton Glory, Van | 2 |
|  |  | medium | |  | |  |  | Napoléon, Rebekka | 3 |
|  |  | strong | |  | |  |  | Namosa, Rivan | 4 |
|  |  | very strong | |  | |  |  | Aida, Merton Heart, Pat | 5 |
| **8.** |  | **QN** | **VG** |  |  | **BBCH33** | | | |
|  |  | |  | | --- | | **Young shoot: pubescence of apex** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | absent or very weak | |  | |  |  |  | 1 |
|  |  | weak | |  | |  |  | Hedelfinger Riesenkirsche, Van | 2 |
|  |  | medium | |  | |  |  | Kassins Frühe | 3 |
|  |  | strong | |  | |  |  | Burlat, Early Rivers | 4 |
|  |  | very strong | |  | |  |  |  | 5 |

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **9.** |  | **PQ** | **VG** | **(+)** |  | **BBCH50** | | | |
|  |  | |  | | --- | | **Fruiting spur: shape of apex of flowering bud** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | acute | |  | |  |  | Bellise, Santina | 1 |
|  |  | obtuse | |  | |  |  | Earlise, Garnet | 2 |
|  |  | rounded | |  | |  |  | Duroni 3, Van | 3 |
| **10** |  | **QN** | **MG/VG** |  | **(b)** | **BBCH39** | | | |
|  |  | |  | | --- | | **Leaf blade: length** | | |  | |  |  |  |  |
|  |  | very short | |  | |  |  |  | 1 |
|  |  | very short to short | |  | |  |  |  | 2 |
|  |  | short | |  | |  |  | Cambrina, Sumtare, Szomolyai fekete | 3 |
|  |  | short to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Napoléon, Vanda | 5 |
|  |  | medium to long | |  | |  |  | Benton | 6 |
|  |  | long | |  | |  |  | Merton Crane | 7 |
|  |  | long to very long | |  | |  |  | Babelle, Rubilam | 8 |
|  |  | very long | |  | |  |  | Habunt | 9 |
| **11** |  | **QN** | **MG/VG** |  | **(b)** | **BBCH39** | | | |
|  |  | |  | | --- | | **Leaf blade: width** | | |  | |  |  |  |  |
|  |  | very narrow | |  | |  |  |  | 1 |
|  |  | very narrow to narrow | |  | |  |  |  | 2 |
|  |  | narrow | |  | |  |  | Sumtare, Sylvia | 3 |
|  |  | narrow to medium | |  | |  |  | Royal Marie | 4 |
|  |  | medium | |  | |  |  | Guillaume, Poisdel, Stella | 5 |
|  |  | medium to broad | |  | |  |  | Sweet Lorenz | 6 |
|  |  | broad | |  | |  |  | Badacsonyi, Germersdorfi 45, Glenoia, Merton Crane | 7 |
|  |  | broad to very broad | |  | |  |  | Rosilam, Sweet Aryana | 8 |
|  |  | very broad | |  | |  |  | Babelle | 9 |

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **12** | **(\*)** | **QN** | **MG/VG** |  | **(b)** | **BBCH39** | | | |
|  |  | |  | | --- | | **Leaf blade: ratio length/width** | | |  | |  |  |  |  |
|  |  | very low | |  | |  |  |  | 1 |
|  |  | very low to low | |  | |  |  |  | 2 |
|  |  | low | |  | |  |  | Badacsonyi, Hudson | 3 |
|  |  | low to medium | |  | |  |  | Rocket | 4 |
|  |  | medium | |  | |  |  | Bing, Merton Crane, Walter | 5 |
|  |  | medium to high | |  | |  |  |  | 6 |
|  |  | high | |  | |  |  | Hedelfinger Riesenkirsche, Poisdel, Sylvia, Vanda | 7 |
|  |  | high to very high | |  | |  |  | Benton, Karl | 8 |
|  |  | very high | |  | |  |  | Babelle, Habunt | 9 |
| **13** |  | **QN** | **VG** |  | **(b)** | **BBCH39** | | | |
|  |  | |  | | --- | | **Leaf blade: intensity of green color of upper side** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very light | |  | |  |  | Bigarreau d’Or | 1 |
|  |  | light | |  | |  |  | Sumtare | 2 |
|  |  | medium | |  | |  |  | Emma, Napoléon, Vanda | 3 |
|  |  | dark | |  | |  |  | Burlat | 4 |
|  |  | very dark | |  | |  |  | Big Star, Frisco | 5 |
| **14** |  | **QN** | **MG/VG** |  | **(b)** | **BBCH39** | | | |
|  |  | |  | | --- | | **Leaf: length of petiole** | | |  | |  |  |  |  |
|  |  | very short | |  | |  |  |  | 1 |
|  |  | very short to short | |  | |  |  |  | 2 |
|  |  | short | |  | |  |  | Sylvia, Van | 3 |
|  |  | short to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Sam, Stella | 5 |
|  |  | medium to long | |  | |  |  |  | 6 |
|  |  | long | |  | |  |  | Badacsonyi,  Merton Crane | 7 |
|  |  | long to very long | |  | |  |  |  | 8 |
|  |  | very long | |  | |  |  |  | 9 |

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **15** | **(\*)** | **QN** | **MG/VG** |  | **(b)** | **BBCH39** | | | |
|  |  | |  | | --- | | **Leaf: ratio length of blade / length of petiole** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very low | |  | |  |  |  | 1 |
|  |  | very low to low | |  | |  |  |  | 2 |
|  |  | low | |  | |  |  | Badacsonyi, Lambert | 3 |
|  |  | low to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Burlat, Sam | 5 |
|  |  | medium to high | |  | |  |  |  | 6 |
|  |  | high | |  | |  |  | Hedelfinger Riesenkirsche, Stella | 7 |
|  |  | high to very high | |  | |  |  |  | 8 |
|  |  | very high | |  | |  |  |  | 9 |
| **16** | **(\*)** | **QL** | **VG** |  | **(b)** | **BBCH39** | | | |
|  |  | |  | | --- | | **Leaf: presence of nectaries** | | |  | |  |  |  |  |
|  |  | absent | |  | |  |  | Namosa, Sylvia | 1 |
|  |  | present | |  | |  |  | Summit, Sumtare | 9 |
| **17** |  | **PQ** | **VG** |  | **(b)** | **BBCH39** | | | |
|  |  | |  | | --- | | **Leaf: color of nectaries** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | greenish yellow | |  | |  |  | Drogans Gelbe Knorpelkirsche, Van | 1 |
|  |  | orange yellow | |  | |  |  | Hudson, Reverchon | 2 |
|  |  | red | |  | |  |  | Burlat, Early Rivers, Germersdorfi 45, Sylvia | 3 |
|  |  | purple | |  | |  |  | Gege, Paulus | 4 |
| **18** |  | **QN** | **VG** |  | **(b)** | **BBCH39** | | | |
|  |  | |  | | --- | | **Leaf: predominant number of nectaries** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | none | |  | |  |  |  | 1 |
|  |  | two | |  | |  |  | Narana | 2 |
|  |  | more than two | |  | |  |  | Royal Lafayette | 3 |

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **19** |  | **QN** | **VG** | **(+)** |  | **BBCH 65** | | | |
|  |  | |  | | --- | | **Stamen: position compared to the top of petals** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | below | |  | |  |  | Burlat | 1 |
|  |  | same level | |  | |  |  | Redlam | 2 |
|  |  | above | |  | |  |  | Royal Hazel | 3 |
| **20** |  | **QN** | **VG** | **(+)** |  | **BBCH 65** | | | |
|  |  | |  | | --- | | **Stigma: position in relation to anthers** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | below | |  | |  |  | Napoléon | 1 |
|  |  | same level | |  | |  |  | Van | 2 |
|  |  | above | |  | |  |  | Burlat | 3 |
| **21** |  | **QN** | **MG/VG** | **(+)** | **(c)** | **BBCH 65** | | | |
|  |  | |  | | --- | | **Flower: diameter** | | |  | |  |  |  |  |
|  |  | very small | |  | |  |  |  | 1 |
|  |  | small | |  | |  |  | Anita, Szomolyai fekete | 2 |
|  |  | medium | |  | |  |  | Sylvia, Van | 3 |
|  |  | large | |  | |  |  | Aida, Burlat | 4 |
|  |  | very large | |  | |  |  | Rosilam, Walter | 5 |
| **22** |  | **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 |
| **23** |  | **QN** | **MG** | **(+)** | **(c)** | **BBCH 65** | | | |
|  |  | |  | | --- | | **Flower: arrangement of petals** | | |  | |  |  |  |  |
|  |  | free | |  | |  |  | Burlat, Royal Hazel, Sunburst | 1 |
|  |  | intermediate | |  | |  |  | Early Korwiks, Germersdorfi 45, Van | 2 |
|  |  | overlapping | |  | |  |  | Hudson | 3 |

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **24** | **(\*)** | **QN** | **MG/VG** | **(+)** | **(d)** | **BBCH89** | | | |
|  |  | |  | | --- | | **Fruit: size** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very low | |  | |  |  |  | 1 |
|  |  | very low to low | |  | |  |  |  | 2 |
|  |  | low | |  | |  |  |  | 3 |
|  |  | low to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  |  | 5 |
|  |  | medium to high | |  | |  |  |  | 6 |
|  |  | high | |  | |  |  |  | 7 |
|  |  | high to very high | |  | |  |  |  | 8 |
|  |  | very high | |  | |  |  |  | 9 |
| **25** |  | **QN** | **MG/VG** |  | **(d), (e)** | **BBCH89** | | | |
|  |  | |  | | --- | | **Fruit: height** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very small | |  | |  |  |  | 1 |
|  |  | very small to small | |  | |  |  |  | 2 |
|  |  | small | |  | |  |  |  | 3 |
|  |  | small to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  |  | 5 |
|  |  | medium to large | |  | |  |  |  | 6 |
|  |  | large | |  | |  |  |  | 7 |
|  |  | large to very large | |  | |  |  |  | 8 |
|  |  | very large | |  | |  |  |  | 9 |
| **26** |  | **QN** | **MG/VG** |  | **(d), (e)** | **BBCH89** | | | |
|  |  | |  | | --- | | **Fruit: width (in ventral view)** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very small | |  | |  |  |  | 1 |
|  |  | small to very small | |  | |  |  |  | 2 |
|  |  | small | |  | |  |  |  | 3 |
|  |  | small to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  |  | 5 |
|  |  | medium to large | |  | |  |  |  | 6 |
|  |  | large | |  | |  |  |  | 7 |
|  |  | large to very large | |  | |  |  |  | 8 |
|  |  | very large | |  | |  |  |  | 9 |

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **27** |  | **QN** | **MG/VG** |  | **(d), (e)** | **BBCH89** | | | |
|  |  | |  | | --- | | **Fruit: ratio height/width (in ventral view)** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very small | |  | |  |  |  | 1 |
|  |  | very small to small | |  | |  |  |  | 2 |
|  |  | small | |  | |  |  |  | 3 |
|  |  | small to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  |  | 5 |
|  |  | medium to large | |  | |  |  |  | 6 |
|  |  | large | |  | |  |  |  | 7 |
|  |  | large to very large | |  | |  |  |  | 8 |
|  |  | very large | |  | |  |  |  | 9 |
| **28** | **(\*)** | **PQ** | **VG** | **(+)** | **(d), (e)** | **BBCH89** | | | |
|  |  | |  | | --- | | **Fruit: shape in ventral view** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | circular | |  | |  |  |  | 1 |
|  |  | broad elliptic | |  | |  |  |  | 2 |
|  |  | cordate | |  | |  |  |  | 3 |
|  |  | reniform | |  | |  |  |  | 4 |
|  |  | oblate | |  | |  |  |  | 5 |
| **29** |  | **PQ** | **VG** | **(+)** | **(d)** | **BBCH89** | | | |
|  |  | |  | | --- | | **Fruit: shape of stalk end (from above)** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | circular | |  | |  |  |  | 1 |
|  |  | elliptic | |  | |  |  |  | 2 |
|  |  | cordate | |  | |  |  |  | 3 |
| **30** |  | **QN** | **VG** | **(+)** | **(d)** | **BBCH89** | | | |
|  |  | |  | | --- | | **Fruit: shape of base in ventral view** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | truncate or weakly cordate | |  | |  |  |  | 1 |
|  |  | medium cordate | |  | |  |  |  | 2 |
|  |  | strongly cordate | |  | |  |  |  | 3 |

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **31** |  | **PQ** | **VG** | **(+)** | **(d)** | **BBCH89** | | | |
|  |  | |  | | --- | | **Fruit: shape of apex in dorsal view** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | obcordate | |  | |  |  |  | 1 |
|  |  | truncate | |  | |  |  |  | 2 |
|  |  | rounded | |  | |  |  |  | 3 |
|  |  | pointed | |  | |  |  |  | 4 |
| **32** |  | **QN** | **VG** |  | **(d)** | **BBCH89** | | | |
|  |  | |  | | --- | | **Fruit: suture** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | absent or slightly conspicuous | |  | |  |  |  | 1 |
|  |  | moderately conspicuous | |  | |  |  |  | 2 |
|  |  | strongly conspicuous | |  | |  |  |  | 3 |
| **33** | **(\*)** | **QN** | **MG** |  | **(d)** | **BBCH89** | | | |
|  |  | |  | | --- | | **Fruit: length of stalk** | | |  | |  |  |  |  |
|  |  | very short | |  | |  |  | Folfer, Van | 1 |
|  |  | very short to short | |  | |  |  |  | 2 |
|  |  | short | |  | |  |  | Burlat, Szomolyai fekete | 3 |
|  |  | short to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Hedelfinger Riesenkirsche, Sunburst | 5 |
|  |  | medium to long | |  | |  |  |  | 6 |
|  |  | long | |  | |  |  | Kordia, Noire de Meched | 7 |
|  |  | long to very long | |  | |  |  |  | 8 |
|  |  | very long | |  | |  |  | Delflash | 9 |
| **34** |  | **QN** | **MG/VG** |  | **(d)** | **BBCH89** | | | |
|  |  | |  | | --- | | **Fruit: thickness of stalk** | | |  | |  |  |  |  |
|  |  | very thin | |  | |  |  |  | 1 |
|  |  | thin | |  | |  |  | Hedelfinger Riesenkirsche, Kordia | 2 |
|  |  | medium | |  | |  |  | Germersdorfi 45, Sunburst | 3 |
|  |  | thick | |  | |  |  | Van | 4 |
|  |  | very thick | |  | |  |  |  | 5 |

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **35** |  | **QN** | **VG** |  | **(d)** | **BBCH89** | | | |
|  |  | |  | | --- | | **Fruit: adherence to stalk** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | absent or weak | |  | |  |  | Fermina, Royal Lafayette | 1 |
|  |  | medium | |  | |  |  |  | 2 |
|  |  | strong | |  | |  |  | Feroni | 3 |
| **36** | **(\*)** | **PQ** | **MG/VG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: ground color of skin** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | yellow | |  | |  |  | Bigarreau d’Or, Dönnissens Gelbe | 1 |
|  |  | orange red | |  | |  |  | Tardif de Vignola | 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 |
| **37** | **(\*)** | **QN** | **VG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: relative area of over color** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | absent or very small | |  | |  |  |  | 1 |
|  |  | very small to small | |  | |  |  |  | 2 |
|  |  | small | |  | |  |  |  | 3 |
|  |  | small to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  |  | 5 |
|  |  | medium to large | |  | |  |  |  | 6 |
|  |  | large | |  | |  |  |  | 7 |
|  |  | large to very large | |  | |  |  |  | 8 |
|  |  | very large | |  | |  |  |  | 9 |

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **38** |  | **QN** | **VG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: size of lenticels on skin** | | |  | |  |  |  |  |
|  |  | very small | |  | |  |  | Benton | 1 |
|  |  | small | |  | |  |  | Emma, Hedelfinger Riesenkirsche | 2 |
|  |  | medium | |  | |  |  | Frisco, Guillaume | 3 |
|  |  | large | |  | |  |  | Reverchon, Rosie | 4 |
|  |  | very large | |  | |  |  | Royal Hazel | 5 |
| **39** |  | **QN** | **VG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: number of lenticels on skin** | | |  | |  |  |  |  |
|  |  | absent or very few | |  | |  |  | Henriette | 1 |
|  |  | few | |  | |  |  | Burlat, Rita | 2 |
|  |  | medium | |  | |  |  | Sunburst | 3 |
|  |  | many | |  | |  |  | Marmotte, Vera | 4 |
|  |  | very many | |  | |  |  | Royal Hazel | 5 |
| **40** |  | **QN** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: thickness of skin** | | |  | |  |  |  |  |
|  |  | thin | |  | |  |  | Glenred,  Müncheberger Frühernte | 1 |
|  |  | intermediate | |  | |  |  | Big Star, Germersdorfi 45 | 2 |
|  |  | thick | |  | |  |  | Carmen, Walter | 3 |
| **41** | **(\*)** | **PQ** | **VG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: color of flesh** | | |  | |  |  |  |  |
|  |  | whitish | |  | |  |  | Baïa, Napoléon, Rosilam | 1 |
|  |  | yellow | |  | |  |  | Cambrina,  Dönnissens Gelbe | 2 |
|  |  | pink | |  | |  |  | Glenred, Reverchon, Sunburst | 3 |
|  |  | medium red | |  | |  |  | Germersdorfi 45, Hedelfinger Riesenkirsche, Redlam, Swing | 4 |
|  |  | dark red | |  | |  |  | Emma, Rubin,  Szomolyai fekete | 5 |

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **42** |  | **PQ** | **VG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: color of juice** | | |  | |  |  |  |  |
|  |  | colorless | |  | |  |  | Dönnissens Gelbe, Rosilam | 1 |
|  |  | light yellow | |  | |  |  | Baïa, Napoléon, Stardust | 2 |
|  |  | pink | |  | |  |  | Areko, Reverchon, Rocket, Sunburst | 3 |
|  |  | red | |  | |  |  | Betti, Sam, Sweet Lorenz, Van | 4 |
|  |  | purple | |  | |  |  | Emma, Hedelfinger Riesenkirsche, Kavics, Sweet Gabriel | 5 |
| **43** | **(\*)** | **QN** | **MG/VG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: firmness** | | |  | |  |  |  |  |
|  |  | very soft | |  | |  |  | Early Rivers | 1 |
|  |  | soft | |  | |  |  | Kordia, Narana, Sunburst | 2 |
|  |  | medium | |  | |  |  | Benton, Emma, Reverchon, Van | 3 |
|  |  | firm | |  | |  |  | Kavics, Sumtare,  Sweet Lorenz | 4 |
|  |  | very firm | |  | |  |  | Folfer | 5 |
| **44** |  | **QN** | **MG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **TO DELETE ? Fruit: acidity** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | low | |  | |  |  | Burlat,  Müncheberger Frühernte | 1 |
|  |  | medium | |  | |  |  | Napoléon, Van | 2 |
|  |  | high | |  | |  |  | Sunburst | 3 |
| **45** |  | **PQ** | **MG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **TO DELETE ? Fruit: sweetness** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | low | |  | |  |  | Müncheberger Frühernte | 3 |
|  |  | medium | |  | |  |  | Burlat, Sunburst | 5 |
|  |  | high | |  | |  |  | Bigarreau d’Or, Kordia | 7 |

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **46** | **(\*)** | **QN** | **MG/VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Stone: size** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very small | |  | |  |  |  | 1 |
|  |  | very small to small | |  | |  |  |  | 2 |
|  |  | small | |  | |  |  |  | 3 |
|  |  | small to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  |  | 5 |
|  |  | medium to large | |  | |  |  |  | 6 |
|  |  | large | |  | |  |  |  | 7 |
|  |  | lareg to very large | |  | |  |  |  | 8 |
|  |  | very large | |  | |  |  |  | 9 |
| **47** |  | **QN** | **MG/VG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: ratio size of fruit/size of stone** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very small | |  | |  |  |  | 1 |
|  |  | very small to small | |  | |  |  |  | 2 |
|  |  | small | |  | |  |  |  | 3 |
|  |  | small to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  |  | 5 |
|  |  | medium to large | |  | |  |  |  | 6 |
|  |  | large | |  | |  |  |  | 7 |
|  |  | large to very large | |  | |  |  |  | 8 |
|  |  | very large | |  | |  |  |  | 9 |
| **48** | **(\*)** | **PQ** | **VG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **Stone: shape in ventral view** | | |  | |  |  |  |  |
|  |  | elliptic | |  | |  |  | Kordia, Napoléon | 1 |
|  |  | broad elliptic | |  | |  |  | Knauffs, Rita | 2 |
|  |  | circular | |  | |  |  | Germersdorfi 45, Van | 3 |
|  |  | ovate | |  | |  |  |  | 4 |

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **49** | **(\*)** | **QN** | **MG/VG** | **(+)** |  | **BBCH60** | | | |
|  |  | |  | | --- | | **Time of beginning of flowering** | | |  | |  |  |  |  |
|  |  | very early | |  | |  |  | Müncheberger Frühernte | 1 |
|  |  | very early to early | |  | |  |  |  | 2 |
|  |  | early | |  | |  |  | Lapins, Marmotte, Sumtare | 3 |
|  |  | early to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Merton Glory, Napoléon, Sumele | 5 |
|  |  | medium to late | |  | |  |  |  | 6 |
|  |  | late | |  | |  |  | Germersdorfi 45, Reverchon | 7 |
|  |  | late to very late | |  | |  |  |  | 8 |
|  |  | very late | |  | |  |  | Regina | 9 |
| **50** | **(\*)** | **QN** | **MG/VG** | **(+)** |  | **BBCH89** | | | |
|  |  | |  | | --- | | **Time of beginning of fruit ripening** | | |  | |  |  |  |  |
|  |  | very early | |  | |  |  | Cristobalina,  Hâtive de Bâle, Müncheberger Frühernte | 1 |
|  |  | very early to early | |  | |  |  |  | 2 |
|  |  | early | |  | |  |  | Burlat, Early Rivers, Valerij Chkalov | 3 |
|  |  | early to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Guillaume, Sunburst | 5 |
|  |  | medium to late | |  | |  |  |  | 6 |
|  |  | late | |  | |  |  | Hedelfinger Riesenkirsche, Katalin | 7 |
|  |  | late to very late | |  | |  |  |  | 8 |
|  |  | very late | |  | |  |  | Hudson, Regina, Vittoria | 9 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | 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 of the leaf should be made on the middle fully developed leaves of a 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. 2: 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. 3: Only varieties with standard tree type: Tree: habit  See Ad. 2  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. 4: Tree: branching  Observations should be carried out on scaffold branches with the degree of branching being indicated by the density of lateral branches and shoots, excluding fruiting shoots.     |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | wordml://81.png | wordml://82.png | wordml://83.png | | 2 | 3 | 4 | | weak | medium | strong | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 6: One-year-old shoot: position of vegetative bud in relation to shoot   |  |  |  | | --- | --- | --- | | wordml://84.png | wordml://85.png | wordml://86.png | | 1 | 2 | 3 | | adpressed | slightly held out | markedly held out | | | | |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 9: Fruiting spur: shape of apex of flowering bud     |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | wordml://87.png | wordml://88.png | wordml://89.png | | 1 | 2 | 3 | | acute | obtuse | rounded | | | | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 19: Stamen: position compared to the top of petals     |  |  |  | | --- | --- | --- | | wordml://90.png | wordml://91.png | wordml://92.png | | 1 | 2 | 3 | | below | same level | above | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 20: Stigma: position in relation to anthers     |  |  |  | | --- | --- | --- | | wordml://93.png | wordml://94.png | wordml://95.png | | 1 | 2 | 3 | | below | same level | above | | | | |  | | --- | | Ad. 21: Flower: diameter  Observations or measurements should be made on completely opened flowers with petals pressed into horizontal position. | | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 22: Flower: shape of petal     |  |  |  | | --- | --- | --- | | wordml://96.png | wordml://97.png | wordml://98.png | | 1 | 2 | 3 | | circular | medium obovate | broad obovate | | | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 23: Flower: arrangement of petals     |  |  |  | | --- | --- | --- | | wordml://99.png | wordml://100.png | wordml://101.png | | 1 | 2 | 3 | | free | intermediate | overlapping | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | |  | | --- | | Ad. 24: Fruit: size  Should be assessed by weighing fruit or mesuring fruit caliber. | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 28: Fruit: shape in ventral view   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  | ←         broadest part                → | | | |  |  | below middle | at middle | above middle | | width (ratio length/width) |  |  |  |  | | narrow  (high) |  |  |  | wordml://102.png  3  cordate | | medium  (medium) |  |  | wordml://103.png  1  circular | wordml://104.png  4  reniform | | broad  (low) |  |  | wordml://105.png  2  broad elliptic | wordml://106.png  5  oblate | | | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 29: Fruit: shape of stalk end (from above)     |  |  |  | | --- | --- | --- | | wordml://107.png | wordml://108.png | wordml://109.png | | 1 | 2 | 3 | | circular | elliptic | cordate | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 30: Fruit: shape of base in ventral view     |  |  |  | | --- | --- | --- | | wordml://110.png | wordml://111.png | wordml://112.png | | 1 | 2 | 3 | | truncate or weakly cordate | medium cordate | strongly cordate | | | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 31: Fruit: shape of apex in dorsal view     |  |  |  | | --- | --- | --- | | wordml://113.png | wordml://114.png | wordml://115.png | | 1 | 2 | 3 | | obcordate | truncate | rounded | | | | |  | | --- | | Ad. 40: Fruit: thickness of skin  Observations should be made by eating the fruits. | | | |  | | --- | | Ad. 46: Stone: size  Can be observed by weighting or sizing the stone. | | | |  | | --- | | Ad. 49: Time of beginning of flowering  When 5-10% open flowers can be observed. | | | |  | | --- | | Ad. 50: Time of beginning of fruit ripening  When 5-10% ripe fruits can be observed. fruit ripening should be considered as the time of eating ripeness, when the fruit can be most easily removed from the stalk. | | |
|  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | 9. | Literature | | |  |  |  | | --- | | Fadon, E., Herrero M., Rodrigo J., 2015: "Flower development in sweet cherry framed in the BBCH scale". Scientia Horticulturae (192), 141-147 | | |

|  |  |  |
| --- | --- | --- |
| |  |  | | --- | --- | | 10. | Technical Questionnaire | |
|  |
| |  |  |  | | --- | --- | --- | | TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: | |
|  |
| |  |  | | --- | --- | |  | 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 | |  |  | |  |  |  |  |  | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | 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: | | | | |  | |  |  | | --- | --- | |  |  | |  |  | | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: | |
|  |
| |  |  |  | | --- | --- | --- | |  |  |  | |  | 4.2 | Method of propagating the variety | |  | |  |  |  | | --- | --- | --- | | |  | | --- | | 4.2.1 | | Other (Please provide details) | [ ] | |  |  |  | |  |  |  | |  |  |  | | | |  | |  |  | | --- | --- | | |  | | --- | |  | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | 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)** | | |  | | --- | | **Tree: type** | |  |  |
|  | |  | | --- | | standard | | |  | | --- | | Burlat | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | compact | | |  | | --- | | Compact Lambert, Compact Stella | | |  | | --- | | 2 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.2** |  |  | | --- | | **(24)** | | |  | | --- | | **Fruit: size** | |  |  |
|  | |  | | --- | | very low | | |  | | --- | |  | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very low to low | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | low | | |  | | --- | |  | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | low to medium | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | |  | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to high | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | high | | |  | | --- | |  | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | high to very high | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very high | | |  | | --- | |  | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.3** |  |  | | --- | | **(28)** | | |  | | --- | | **Fruit: shape in ventral view** | |  |  |
|  | |  | | --- | | circular | | |  | | --- | |  | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | broad elliptic | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | cordate | | |  | | --- | |  | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | reniform | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | oblate | | |  | | --- | |  | | |  | | --- | | 5 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.4** |  |  | | --- | | **(36)** | | |  | | --- | | **Fruit: ground color of skin** | |  |  |
|  | |  | | --- | | yellow | | |  | | --- | | Bigarreau d’Or, Dönnissens Gelbe | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | orange red | | |  | | --- | | Tardif de Vignola | | |  | | --- | | 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 [   ] | |
|  |  |  |  |

|  | Characteristics | Example Varieties | Note |
| --- | --- | --- | --- |
|  |  |  |  |
| |  | | --- | | **5.5** |  |  | | --- | | **(41)** | | |  | | --- | | **Fruit: color of flesh** | |  |  |
|  | |  | | --- | | whitish | | |  | | --- | | Baïa, Napoléon, Rosilam | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | yellow | | |  | | --- | | Cambrina, Dönnissens Gelbe | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | pink | | |  | | --- | | Glenred, Reverchon, Sunburst | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | medium red | | |  | | --- | | Germersdorfi 45, Hedelfinger Riesenkirsche, Redlam, Swing | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | dark red | | |  | | --- | | Emma, Rubin, Szomolyai fekete | | |  | | --- | | 5 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.6** |  |  | | --- | | **(43)** | | |  | | --- | | **Fruit: firmness** | |  |  |
|  | |  | | --- | | very soft | | |  | | --- | | Early Rivers | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | soft | | |  | | --- | | Kordia, Narana, Sunburst | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Benton, Emma, Reverchon, Van | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | firm | | |  | | --- | | Kavics, Sumtare, Sweet Lorenz | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | very firm | | |  | | --- | | Folfer | | |  | | --- | | 5 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.7** |  |  | | --- | | **(49)** | | |  | | --- | | **Time of beginning of flowering** | |  |  |
|  | |  | | --- | | very early | | |  | | --- | | Müncheberger Frühernte | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very early to early | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | early | | |  | | --- | | Lapins, Marmotte, Sumtare | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | early to medium | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Merton Glory, Napoléon, Sumele | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to late | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | late | | |  | | --- | | Germersdorfi 45, Reverchon | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | late to very late | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very late | | |  | | --- | | Regina | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.8** |  |  | | --- | | **(50)** | | |  | | --- | | **Time of beginning of fruit ripening** | |  |  |
|  | |  | | --- | | very early | | |  | | --- | | Cristobalina, Hâtive de Bâle, Müncheberger Frühernte | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very early to early | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | early | | |  | | --- | | Burlat, Early Rivers, Valerij Chkalov | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | early to medium | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Guillaume, Sunburst | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to late | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | late | | |  | | --- | | Hedelfinger Riesenkirsche, Katalin | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | late to very late | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very late | | |  | | --- | | Hudson, Regina, Vittoria | | |  | | --- | | 9 [   ] | |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: | |
|  |
| |  |  | | --- | --- | | 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: | |

|  |  |  |  |
| --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: | |
|  |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | |  | | --- | | #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 | | | | |  |  |  |  |  | |

|  |  |  |  |
| --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: | |
|  |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 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 |  |  | |  |  |  | |  |  | |  |  |  |  |  |  | |
| [End of document] |