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| **TG/230/2(proj.2)** |
| **ORIGINAL:** English |
| **DATE:** 2022-05-27 |

 |
| **INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS** |
|  | Geneva  |  |
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|  | DRAFT |  |
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| --- |
|   |
| **SOUR CHERRY; DUKE CHERRY** |
|   |
|

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| --- |
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|

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| --- |
| UPOV Code(s): PRUNU\_CSD; PRUNU\_GON |

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|  |
| --- |
| *Prunus cerasus* L.,*Prunus × gondouinii* (Poit. & Turpin) Rehder and *P. avium* [L.] L. x P. *cerasus* L. |

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| **GUIDELINES** |
|   |
| **FOR THE CONDUCT OF TESTS** |
|   |
| **FOR DISTINCTNESS, UNIFORMITY AND STABILITY** |

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| --- |
| *prepared by experts from Hungary* |
| *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* |
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| --- |
| Alternative names:\* |

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 |
| *Botanical name* | *English* | *French* | *German* | *Spanish* |
|

|  |
| --- |
| *Prunus cerasus* L., *Cerasus vulgaris* Mill. |

 |

|  |
| --- |
| Sour cherry, Tart cherry, Morello |

 |

|  |
| --- |
| Cerisier acide |

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|  |
| --- |
| Sauerkirsche |

 |

|  |
| --- |
| Cerezo ácido, Guindo |

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|

|  |
| --- |
| *Prunus × gondouinii* (Poit. & Turpin) Rehder, *P. avium* × *P. cerasus* |

 |

|  |
| --- |
| Duke cherry |

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|  |
| --- |
| Griotte |

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|  |
| --- |
| Cerezo Duke |

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 |
| 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. |
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| **ASSOCIATED DOCUMENTS** |
| These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents. |
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| 1. | Subject of these Test Guidelines |
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| --- |
| These Test Guidelines apply to all varieties of *Prunus cerasus* L., *Prunus × gondouinii* (Poit. & Turpin) Rehder and *P. avium* *L.*x *P. cerasus* L. |

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| 2. | Material Required |
|  |   |
| 2.1 |

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| 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. |

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| 2.2 |

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| The material is to be supplied in the form of The material is to be supplied in the form of one-year-old grafts, budsticks or dormant shoots for grafting. |

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| 2.3 |

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| The minimum quantity of plant material, to be supplied by the applicant, should be: |

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| The minimum quantity of plant material, to be supplied by the applicant, should be: 5 trees or3 budsticks or5 dormant shoots for grafting, sufficient to propagate 5 trees. The rootstock to be used is specified by the competent authority.  |

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| 2.4 |

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| The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease. |

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| 2.5 |

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| 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* |
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| --- |
| 3.1.1 |

 | The minimum duration of tests should normally be two independent growing cycles. |
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| 3.1.2 |

 | The two independent growing cycles may be observed from a single planting, examined in two separate growing cycles. |
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| 3.1.3 |

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| In particular, it is essential that the plants produce a satisfactory crop of fruit in each of the two growing cycles. |

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| 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. |
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| 3.1.5 |

 | The testing of a variety may be concluded when the competent authority can determine with certainty the outcome of the test. |
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| *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* |
|  |   |
|

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

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*3.5* | *Additional Tests* |
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|  | 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. |
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| 4.1.4 |

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| Number of Plants or Parts of Plants to be Examined |

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| 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. |

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| 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”): |
|  |   |
|  |

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| --- |
| 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 plantsVS: visual assessment by observation of individual plants or parts of plants |

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|  |   |
|  | Type of observation: visual (V) or measurement (M) |
|  |   |

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| --- | --- |
|  | “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. |
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| Type of record: for a group of plants (G) or for single, individual plants (S) |

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| 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. |

 |
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|  | 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:  |
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| 4.2.2 |

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| --- |
| 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. |

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|  |   |
| *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 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. |
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| 5.3 | The following have been agreed as useful grouping characteristics: |
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| --- | --- | --- |
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|  |
| --- |
| (a) |

 |  | Fruit:  size (characteristic 27) |
|

|  |
| --- |
| (b) |

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| --- |
| Fruit: color of skin (characteristic 36) |

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|

|  |
| --- |
| (c) |

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| --- |
| Fruit: color of flesh (characteristic 37) |

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|

|  |
| --- |
| (d) |

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| --- |
| Fruit: color of juice (characteristic 38) |

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|

|  |
| --- |
| (e) |

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| --- |
| Time of beginning of flowering (characteristic 46) |

 |
| (f) |  |

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| --- |
| Time of beginning of fruit ripening (characteristic 47) |

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| 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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| 6. | Introduction to the Table of Characteristics |
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| *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* |
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|  |  | English | français | deutsch | español | Example VarietiesExemplesBe ejemplo | Note |
| --- | --- | --- | --- | --- | --- | --- | --- |
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| **1** |

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| **2** |

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| **3** |

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| **4** |

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| **5** |

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| **6** |

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| **7** |

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| --- |
| **Name of characteristics in English** |

 |

|  |
| --- |
| **Nom du caractère en français** |

 |

|  |
| --- |
| **Name des Merkmals auf Deutsch** |

 |

|  |
| --- |
| **Nombre del carácter en español** |

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|  |  |

|  |
| --- |
| states of expression |

 |

|  |
| --- |
| types d’expression |

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| --- |
| Ausprägungsstufen |

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| --- |
| tipos de expresión |

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| 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 |
|  |   |  |  |
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| See Explanations on the Table of Characteristics in Chapter 8.1 |

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| 6 |

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| --- |
| (a)–(f) |

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| See Explanations on the Table of Characteristics in Chapter 8.2 |

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|  |   |  |  |
| 7 |

|  |
| --- |
| Not applicable |

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

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **1.** |  | **QN** | **VG** |  | **(a)** |  |
|  |  |

|  |
| --- |
| **Tree: vigor** |

 |  |  |  |  |  |
|  |  | very weak |  |  |  | Demesova, Kelleriis 14, Samor | 1 |
|  |  | very weak to weak |  |  |  |  | 2 |
|  |  | weak |  |  |  | Gerema, Nana | 3 |
|  |  | weak to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Karneol, Montmorency | 5 |
|  |  | medium to strong |  |  |  |  | 6 |
|  |  | strong |  |  |  | Kántorjánosi 3, Pándy Bb. 119 | 7 |
|  |  | strong to very strong |  |  |  |  | 8 |
|  |  | very strong |  |  |  | Érdi nagygyümölcsű, Piramis | 9 |
| **2.** | **(\*)** | **PQ** | **VG** | **(+)** | **(a)** |  |
|  |  |

|  |
| --- |
| **Tree: habit** |

 |  |  |  |  |  |
|  |  | upright |  |  |  | Oblachinska, Piramis, Ţarina | 1 |
|  |  | semi-upright |  |  |  | Safir, Újfehértói fürtös | 2 |
|  |  | spreading |  |  |  | Karneol, Montmorency, Samor | 3 |
|  |  | drooping |  |  |  | Cigánymeggy 7 | 4 |
| **3.** | **(\*)** | **QN** | **VG** | **(+)** | **(a)** |  |
|  |  |

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| --- |
| **Tree: branching** |

 |  |  |  |  |  |
|  |  | very weak |  |  |  |  | 1 |
|  |  | very weak to weak |  |  |  | Piramis | 2 |
|  |  | weak |  |  |  | Meteor korai, Samor | 3 |
|  |  | weak to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Morsam, Pándy Bb. 119 | 5 |
|  |  | medium to strong |  |  |  |  | 6 |
|  |  | strong |  |  |  | Cigánymeggy 7, Montmorency, Safir | 7 |
|  |  | strong to very strong |  |  |  | Erika | 8 |
|  |  | very strong |  |  |  | Bianchi di Offagna | 9 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
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| **4.** |  | **PQ** | **VG** | **(+)** | **(a)** |  |
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| --- |
| **Tree: bud distribution** |

 |  |  |  |  |  |
|  |  | along entire branch |  |  |  | Coralin, Maliga emléke, Piramis | 1 |
|  |  | only on middle and distal part of branch |  |  |  | Érdi jubileum, Meteor, Morava | 2 |
|  |  | only on distal part of branch |  |  |  | Cigánymeggy 7, Samor, Schattenmorelle | 3 |
| **5.** |  | **QN** | **VG** |  |  |  |
|  |  |

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| --- |
| **Young shoot: anthocyanin coloration of apex (during rapid growth)** |

 |  |  |  |  |  |
|  |  | absent or very weak |  |  |  | Cigánymeggy 59, Meteor | 1 |
|  |  | very weak to weak |  |  |  |  | 2 |
|  |  | weak |  |  |  | Kelleriis 14, Montmorency | 3 |
|  |  | weak to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Érdi bőtermő, Meteor korai, Schattenmorelle | 5 |
|  |  | medium to strong |  |  |  |  | 6 |
|  |  | strong |  |  |  | Érdi jubileum, Fanal | 7 |
|  |  | strong to very strong |  |  |  |  | 8 |
|  |  | very strong |  |  |  | Érdi nagygyümölcsű, Topas | 9 |
| **6.** |  | **QN** | **VG** |  |  |  |
|  |  |

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| --- |
| **Young shoot: pubescence of apex (during rapid growth)** |

 |  |  |  |  |  |
|  |  | very weak |  |  |  |  | 1 |
|  |  | very weak to weak |  |  |  |  | 2 |
|  |  | weak |  |  |  | Cigánymeggy 7, Csengődi, Karneol | 3 |
|  |  | weak to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Favorit, Morava | 5 |
|  |  | medium to strong |  |  |  |  | 6 |
|  |  | strong |  |  |  | Cigánymeggy 59 | 7 |
|  |  | strong to very strong |  |  |  |  | 8 |
|  |  | very strong |  |  |  |  | 9 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
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| **7.** | **(\*)** | **QN** | **VG** | **(+)** | **(a)** |  |
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| **One-year-old shoot: length of internode** |

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| --- |
| **Rameau d’un an : longueur de l’entre-nœud** |

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|  |
| --- |
| **Einjähriger Trieb: Länge des Internodiums** |

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|  |
| --- |
| **Rama de un año: longitud del entrenudo** |

 |  |  |
|  |  | very short |  |  |  | Erika | 1 |
|  |  | very short to short |  |  |  | Nana, Samor | 2 |
|  |  | short |  |  |  | Meteor, Schattenmorelle | 3 |
|  |  | short to medium |  |  |  | Fanal | 4 |
|  |  | medium |  |  |  | Cigánymeggy 7, Petri | 5 |
|  |  | medium to long |  |  |  | Maliga emléke | 6 |
|  |  | long |  |  |  | Érdi bőtermő | 7 |
|  |  | long to very long |  |  |  | Érdi jubileum, Érdi nagygyümölcsű | 8 |
|  |  | very long |  |  |  | Érdi ipari | 9 |
| **8.** |  | **QN** | **VG** |  | **(a)** |  |
|  |  |

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| --- |
| **One-year-old shoot: number of lenticels** |

 |  |  |  |  |  |
|  |  | very few |  |  |  |  | 1 |
|  |  | few |  |  |  |  | 2 |
|  |  | medium |  |  |  |  | 3 |
|  |  | many |  |  |  |  | 4 |
|  |  | very many |  |  |  |  | 5 |
| **9.** |  | **QN** | **VG** |  | **(b)** |  |
|  |  |

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| --- |
| **Leaf blade: length** |

 |  |  |  |  |  |
|  |  | very short |  |  |  |  | 1 |
|  |  | very short to short |  |  |  |  | 2 |
|  |  | short |  |  |  | Cigánymeggy C. 404, Meteor, Oblachinska | 3 |
|  |  | short to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Kántorjánosi 3, Karneol, Kelleriis 16 | 5 |
|  |  | medium to long |  |  |  |  | 6 |
|  |  | long |  |  |  | Érdi bőtermő, Favorit, Maliga emléke | 7 |
|  |  | long to very long |  |  |  |  | 8 |
|  |  | very long |  |  |  |  | 9 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **10** |  | **QN** | **VG** |  | **(b)** |  |
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| **Leaf blade: width** |

 |  |  |  |  |  |
|  |  | very narrow |  |  |  |  | 1 |
|  |  | very narrow to narrow |  |  |  |  | 2 |
|  |  | narrow |  |  |  | Montmorency, Schattenmorelle | 3 |
|  |  | narrow to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Karneol, Kelleriis 16, Pándy Bb. 119 | 5 |
|  |  | medium to broad |  |  |  |  | 6 |
|  |  | broad |  |  |  | Érdi bőtermő, Maliga emléke | 7 |
|  |  | broad to very broad |  |  |  |  | 8 |
|  |  | very broad |  |  |  |  | 9 |
| **11** | **(\*)** | **QN** | **VG** |  | **(b)** |  |
|  |  |

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| --- |
| **Leaf blade: ratio length/width** |

 |  |  |  |  |  |
|  |  | very small |  |  |  |  | 1 |
|  |  | very small to small |  |  |  |  | 2 |
|  |  | small |  |  |  | Cigánymeggy 7, Kelleriis 16 | 3 |
|  |  | small to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Karneol, Maliga emléke | 5 |
|  |  | lmedium to large |  |  |  |  | 6 |
|  |  | large |  |  |  | Favorit, Meteor korai, Oblachinska | 7 |
|  |  | large to very large |  |  |  |  | 8 |
|  |  | very large |  |  |  |  | 9 |
| **12** |  | **QN** | **VG** |  | **(b)** |  |
|  |  |

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| --- |
| **Leaf blade: intensity of green color of upper side** |

 |  |  |  |  |  |
|  |  | very light |  |  |  |  | 1 |
|  |  | light |  |  |  |  | 2 |
|  |  | medium |  |  |  |  | 3 |
|  |  | dark |  |  |  |  | 4 |
|  |  | very dark |  |  |  |  | 5 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **13** |  | **QN** | **VG** |  | **(b)** |  |
|  |  |

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| --- |
| **Leaf blade: glossiness** |

 |  |  |  |  |  |
|  |  | absent or weak |  |  |  | Csengődi | 1 |
|  |  | very weak to weak |  |  |  |  | 2 |
|  |  | weak |  |  |  | Schattenmorelle | 3 |
|  |  | weak to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Debreceni bőtermő | 5 |
|  |  | medium to strong |  |  |  |  | 6 |
|  |  | strong |  |  |  | Karneol, Pándy 279 | 7 |
|  |  | strong to very strong |  |  |  |  | 8 |
|  |  | very strong |  |  |  | Maliga emléke | 9 |
| **14** | **(\*)** | **QN** | **MG/VG** |  | **(b)** |  |
|  |  |

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| --- |
| **Leaf: length of petiole** |

 |  |  |  |  |  |
|  |  | very short |  |  |  |  | 1 |
|  |  | very short to short |  |  |  |  | 2 |
|  |  | short |  |  |  | Karneol, Kelleriis 16, Oblachinska | 3 |
|  |  | short to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Maliga emléke, Montmorency, Újfehértói fürtös | 5 |
|  |  | medium to long |  |  |  |  | 6 |
|  |  | long |  |  |  | Favorit, Piramis | 7 |
|  |  | long to very long |  |  |  |  | 8 |
|  |  | very long |  |  |  |  | 9 |
| **15** |  | **QN** | **VG** |  | **(b)** |  |
|  |  |

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| --- |
| **Leaf: intensitiy of anthocyanin coloration of petiole (upper side)** |

 |  |  |  |  |  |
|  |  | weak |  |  |  | Gerema, Oblachinska | 3 |
|  |  | medium |  |  |  | Favorit | 5 |
|  |  | strong |  |  |  | Fanal, Montmorency, Safir | 7 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **16** |  | **QN** | **MG/VG** |  | **(b)** |  |
|  |  |

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| --- |
| **Leaf: ratio length of blade / length of petiole** |

 |  |  |  |  |  |
|  |  | very small |  |  |  |  | 1 |
|  |  | very small to small |  |  |  |  | 2 |
|  |  | small |  |  |  | Favorit, Pipacs 1 | 3 |
|  |  | small to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Montmorency, Schattenmorelle | 5 |
|  |  | medium to large |  |  |  |  | 6 |
|  |  | large |  |  |  | Karneol, Kelleriis 16, Meteor | 7 |
|  |  | large to very large |  |  |  |  | 8 |
|  |  | very large |  |  |  |  | 9 |
| **17** | **(\*)** | **QL** | **VG** |  | **(b)** |  |
|  |  |

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| --- |
| **Leaf: presence of nectaries** |

 |  |  |  |  |  |
|  |  | absent |  |  |  | North Star, Oblachinska | 1 |
|  |  | present |  |  |  | Favorit, Piramis | 9 |
| **18** |  | **QN** | **VG** |  | **(c)** |  |
|  |  |

|  |
| --- |
| **Nectaries: position** |

 |  |  |  |  |  |
|  |  | at base of leaf only |  |  |  | Karneol, Meteor | 1 |
|  |  | both at base of leaf blade and on petiole |  |  |  | Favorit, Montmorency | 2 |
|  |  | on petiole only |  |  |  | Kántorjánosi 3, Pipacs 1, Ţarina | 3 |
| **19** |  | **PQ** | **VG** | **(+)** | **(c)** |  |
|  |  |

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| --- |
| **Nectaries: color** |

 |  |  |  |  |  |
|  |  | greenish yellow |  |  |  | Coralin, Samor | 1 |
|  |  | orange yellow |  |  |  | Kántorjánosi 3, Topas | 2 |
|  |  | light red |  |  |  | Cigánymeggy 7, Érdi bőtermő, Oblachinska | 3 |
|  |  | dark red |  |  |  | Meteor, Nana | 4 |
|  |  | brownish |  |  |  | Karneol, Morina | 5 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **20** |  | **QN** | **VG** | **(+)** | **(d)** |  |
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| --- |
| **Stipule: attitude** |

 |  |  |  |  |  |
|  |  | leaning away from shoot |  |  |  | Kelleriis 16, Meteor, Samor | 1 |
|  |  | adpressed to shoot |  |  |  | Favorit, Pándy 279 | 2 |
|  |  | leaning across shoot |  |  |  | Csengődi, Pipacs 1, Piramis | 3 |
| **21** |  | **QN** | **VG** |  | **(d)** |  |
|  |  |

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| --- |
| **Stipule: size** |

 |  |  |  |  |  |
|  |  | very small |  |  |  |  | 1 |
|  |  | small |  |  |  | Favorit, Schattenmorelle, Újfehértói fürtös | 2 |
|  |  | medium |  |  |  | Debreceni bőtermő, Maliga emléke, Samor | 3 |
|  |  | large |  |  |  | Meteor korai, Morsam | 4 |
|  |  | very large |  |  |  |  | 5 |
| **22** |  | **QN** | **VG** | **(+)** | **(d)** |  |
|  |  |

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| **Stipule: extensions of margins** |

 |  |  |  |  |  |
|  |  | absent or weak |  |  |  | Oblachinska, Schattenmorelle, Újfehértói fürtös | 1 |
|  |  | medium |  |  |  | Piramis, Samor | 2 |
|  |  | strong |  |  |  | Csengődi, Kelleriis 16, Meteor korai | 3 |
| **23** |  | **QN** | **MG/VG** | **(+)** | **(e)** |  |
|  |  |

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| --- |
| **Flower: diameter** |

 |  |  |  |  |  |
|  |  | very small |  |  |  |  | 1 |
|  |  | very small to small |  |  |  |  | 2 |
|  |  | small |  |  |  | Oblachinska, Samor | 3 |
|  |  | small to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Kelleriis 16, Montmorency, Újfehértói fürtös | 5 |
|  |  | medium to large |  |  |  |  | 6 |
|  |  | large |  |  |  | Érdi bőtermő, Kántorjánosi 3, Pándy Bb. 119 | 7 |
|  |  | large to vary large |  |  |  |  | 8 |
|  |  | very large |  |  |  |  | 9 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **24** |  | **QN** | **VG** | **(+)** | **(e)** |  |
|  |  |

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| --- |
| **Flower: arrangement of petals** |

 |  |  |  |  |  |
|  |  | free |  |  |  | Kelleriis 16, Újfehértói fürtös | 1 |
|  |  | intermediate |  |  |  | Érdi jubileum, Montmorency, Schattenmorelle | 2 |
|  |  | overlapping |  |  |  | Favorit, Meteor korai, Oblachinska | 3 |
| **25** |  | **PQ** | **VG** | **(+)** | **(e)** |  |
|  |  |

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| --- |
| **Flower: shape of petal** |

 |  |  |  |  |  |
|  |  | circular |  |  |  | Favorit, Meteor, Oblachinska | 1 |
|  |  | medium obovate |  |  |  | Kelleriis 16, Pipacs 1, Safir | 2 |
|  |  | broad obovate |  |  |  | Érdi bőtermő, Korai pipacs, Schattenmorelle | 3 |
| **26** |  | **PQ** | **VG** | **(+)** | **(e)** |  |
|  |  |

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| --- |
| **Flower: arrangement** |

 |  |  |  |  |  |
|  |  | solitary |  |  |  | Cerella, Nabella | 1 |
|  |  | double |  |  |  | Safir | 2 |
|  |  | in clusters |  |  |  | Újfehértói fürtös | 3 |
|  |  | irregular |  |  |  | Schattenmorelle | 4 |
| **27** | **(\*)** | **QN** | **MG/VG** |  | **(f)** |  |
|  |  |

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| --- |
| **Fruit: size** |

 |  |  |  |  |  |
|  |  | very small |  |  |  | Oblachinska | 1 |
|  |  | very small to small |  |  |  | Erika | 2 |
|  |  | small |  |  |  | Cigánymeggy 7, Cigánymeggy C. 404 | 3 |
|  |  | small to medium |  |  |  | Korai pipacs | 4 |
|  |  | medium |  |  |  | Érdi bőtermő, Schattenmorelle | 5 |
|  |  | medium to large |  |  |  | Favorit, Kelleriis 16 | 6 |
|  |  | large |  |  |  | Éva, Karneol, Morsam | 7 |
|  |  | large to very large |  |  |  | Pándy Bb 119 | 8 |
|  |  | very large |  |  |  | Petri, Piramis, Safir | 9 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **28** | **(\*)** | **PQ** | **VG** | **(+)** | **(f)** |  |
|  |  |

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| **Fruit: shape in ventral view** |

 |  |  |  |  |  |
|  |  | reniform |  |  |  | Érdi jubileum, Pándy Bb. 119 | 1 |
|  |  | oblate |  |  |  | Montmorency, Morina | 2 |
|  |  | circular |  |  |  | Maliga emléke, Nana | 3 |
|  |  | elliptic |  |  |  | Csengődi, Karneol, Morsam | 4 |
|  |  | cordate |  |  |  | Érdi bíbor | 5 |
| **29** |  | **QN** | **VG** | **(+)** | **(f)** |  |
|  |  |

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| --- |
| **Fruit: pistil end** |

 |  |  |  |  |  |
|  |  | pointed |  |  |  | Favorit, Morsam | 1 |
|  |  | flat |  |  |  | Korai pipacs, Samor | 2 |
|  |  | depressed |  |  |  | Cigánymeggy C. 404, Montmorency, Schattenmorelle | 3 |
| **30** | **(\*)** | **QN** | **MG/VG** |  | **(f)** |  |
|  |  |

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| --- |
| **Fruit: length of stalk** |

 |  |  |  |  |  |
|  |  | very short |  |  |  |  | 1 |
|  |  | very short to short |  |  |  |  | 2 |
|  |  | short |  |  |  |  | 3 |
|  |  | short to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  |  | 5 |
|  |  | medium to long |  |  |  |  | 6 |
|  |  | long |  |  |  |  | 7 |
|  |  | long to very long |  |  |  |  | 8 |
|  |  | very long |  |  |  |  | 9 |
| **31** |  | **QN** | **VG** |  | **(f)** |  |
|  |  |

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| --- |
| **Fruit: thickness of stalk** |

 |  |  |  |  |  |
|  |  | very thin |  |  |  |  | 1 |
|  |  | thin |  |  |  |  | 2 |
|  |  | medium |  |  |  |  | 3 |
|  |  | thick |  |  |  |  | 4 |
|  |  | very thick |  |  |  |  | 5 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **32** | **(\*)** | **QL** | **VG** |  | **(f)** |  |
|  |  |

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| --- |
| **Fruit: anthocyanin coloration of stalk** |

 |  |  |  |  |  |
|  |  | absent |  |  |  | Meteor korai | 1 |
|  |  | present |  |  |  | Újfehértói fürtös | 9 |
| **33** |  | **QN** | **VG** |  | **(f)** |  |
|  |  |

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| --- |
| **Fruit: number of bracts on stalk** |

 |  |  |  |  |  |
|  |  | absent or few |  |  |  | Piramis, Ţarina | 1 |
|  |  | medium |  |  |  | Érdi bőtermő, Morina | 2 |
|  |  | many |  |  |  | Gerema, Kántorjánosi 3, Kelleriis 16 | 3 |
| **34** |  | **QN** | **VG** |  | **(f)** |  |
|  |  |

|  |
| --- |
| **Fruit: size of bracts on stalk** |

 |  |  |  |  |  |
|  |  | very small |  |  |  |  | 1 |
|  |  | small |  |  |  |  | 2 |
|  |  | medium |  |  |  |  | 3 |
|  |  | large |  |  |  |  | 4 |
|  |  | very large |  |  |  |  | 5 |
| **35** |  | **QL** | **VG** |  | **(f)** |  |
|  |  |

|  |
| --- |
| **Fruit: abscission layer between stalk and fruit** |

 |  |  |  |  |  |
|  |  | absent |  |  |  | Csengődi, Meteor korai | 1 |
|  |  | present |  |  |  | Karneol, Újfehértói fürtös | 9 |

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| **36** | **(\*)** | **PQ** | **VG** |  | **(f)** |  |
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| **Fruit: color of skin** |

 |  |  |  |  |  |
|  |  | orange red |  |  |  | Meteor, Pipacs 1 | 1 |
|  |  | light red |  |  |  | Favorit, Montmorency | 2 |
|  |  | medium red |  |  |  | Pándy Bb 119 | 3 |
|  |  | dark red |  |  |  | Cigánymeggy 7, Gerema, Nana | 4 |
|  |  | brown red |  |  |  | Karneol, Kelleriis 16, Schattenmorelle | 5 |
|  |  | blackish |  |  |  | Érdi jubileum, North Star | 6 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
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| **37** | **(\*)** | **PQ** | **VG** |  | **(f)** |  |
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| **Fruit: color of flesh** |

 |  |  |  |  |  |
|  |  | yellowish |  |  |  | Montmorency, Pipacs 1 | 1 |
|  |  | pink |  |  |  | Meteor, Pándy 279 | 2 |
|  |  | medium red |  |  |  | Kántorjánosi 3, Karneol | 3 |
|  |  | dark red |  |  |  | Cigánymeggy 7, Fanal | 4 |
| **38** | **(\*)** | **PQ** | **VG** |  | **(f)** |  |
|  |  |

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| **Fruit: color of juice** |

 |  |  |  |  |  |
|  |  | colorless |  |  |  | Montmorency | 1 |
|  |  | light yellow |  |  |  | Pipacs 1 | 2 |
|  |  | pink |  |  |  | Meteor, Pándy 7 | 3 |
|  |  | medium red |  |  |  | Kántorjánosi 3, Karneol | 4 |
|  |  | dark red |  |  |  | Cigánymeggy 7, Érdi jubileum, Fanal | 5 |
| **39** | **(\*)** | **QN** | **MG/VG** |  | **(f)** |  |
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| **Fruit: firmness** |

 |  |  |  |  |  |
|  |  | very soft |  |  |  |  | 1 |
|  |  | very soft to soft |  |  |  |  | 2 |
|  |  | soft |  |  |  | Csengődi, Samor | 3 |
|  |  | soft to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Karneol, Pándy 279 | 5 |
|  |  | medium to firm |  |  |  |  | 6 |
|  |  | firm |  |  |  | Érdi jubileum | 7 |
|  |  | firm to very firm |  |  |  |  | 8 |
|  |  | very firm |  |  |  |  | 9 |
| **40** |  | **QN** | **VG** |  | **(f)** |  |
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| **Fruit: acidity** |

 |  |  |  |  |  |
|  |  | very low |  |  |  | Meteor korai | 1 |
|  |  | very low to low |  |  |  |  | 2 |
|  |  | low |  |  |  | Érdi bőtermő, Spinell | 3 |
|  |  | low to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Impératrice Eugénie, Pándy 279 | 5 |
|  |  | medium to high |  |  |  | Újfehértói fürtös | 6 |
|  |  | high |  |  |  | Meteor, Montmorency | 7 |
|  |  | high to very high |  |  |  | Erika | 8 |
|  |  | very high |  |  |  | Cigánymeggy 7, Schattenmorelle | 9 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **41** |  | **QN** | **VG** |  | **(f)** |  |
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| **Fruit: sweetness** |

 |  |  |  |  |  |
|  |  | very low |  |  |  |  | 1 |
|  |  | very low to low |  |  |  |  | 2 |
|  |  | low |  |  |  | Montmorency | 3 |
|  |  | low to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Pándy 279 | 5 |
|  |  | medium to high |  |  |  |  | 6 |
|  |  | high |  |  |  | Érdi jubileum, Favorit | 7 |
|  |  | high to high |  |  |  |  | 8 |
|  |  | very high |  |  |  |  | 9 |
| **42** |  | **QN** | **VG** |  | **(f)** |  |
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| **Fruit: juiciness** |

 |  |  |  |  |  |
|  |  | very weak |  |  |  |  | 1 |
|  |  | weak |  |  |  |  | 2 |
|  |  | medium |  |  |  |  | 3 |
|  |  | strong |  |  |  |  | 4 |
|  |  | very strong |  |  |  |  | 5 |
| **43** | **(\*)** | **QN** | **MG/VG** |  | **(f)** |  |
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| **Stone: size** |

 |  |  |  |  |  |
|  |  | very small |  |  |  |  | 1 |
|  |  | very small to small |  |  |  |  | 2 |
|  |  | small |  |  |  | Oblachinska, Stevnsbaer | 3 |
|  |  | small to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Érdi bőtermő, Schattenmorelle | 5 |
|  |  | medium to large |  |  |  |  | 6 |
|  |  | large |  |  |  | Maliga emléke, Pándy Bb. 119 | 7 |
|  |  | large to very large |  |  |  |  | 8 |
|  |  | very large |  |  |  |  | 9 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
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| **44** | **(\*)** | **QN** | **VG** | **(+)** | **(f)** |  |
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| **Stone: shape in ventral view** |

 |  |  |  |  |  |
|  |  | narrow elliptic |  |  |  | Csengődi, Meteor | 1 |
|  |  | broad elliptic |  |  |  | Fanal, Maliga emléke | 2 |
|  |  | circular |  |  |  | Érdi jubileum, Kelleriis 16 | 3 |
| **45** | **(\*)** | **QN** | **MG/VG** |  | **(f)** |  |
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| **Fruit: ratio weight of fruit / weight 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 |
| **46** | **(\*)** | **QN** | **MG/VG** | **(+)** |  |  |
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| **Time of beginning of flowering** |

 |  |  |  |  |  |
|  |  | very early |  |  |  | Érdi ipari | 1 |
|  |  | very early to early |  |  |  | Bianchi di Offagna, Érdi bőtermő | 2 |
|  |  | early |  |  |  | Favorit, Meteor korai | 3 |
|  |  | early to medium |  |  |  | Fanal | 4 |
|  |  | medium |  |  |  | Cigánymeggy 7, Vowi | 5 |
|  |  | medium to late |  |  |  | Érdi nagygyümölcsű | 6 |
|  |  | late |  |  |  | Gerema, Kelleriis 16 | 7 |
|  |  | late to very late |  |  |  | Schattenmorelle | 8 |
|  |  | very late |  |  |  | Morsam | 9 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **47** | **(\*)** | **QN** | **MG/VG** | **(+)** |  |  |
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| **Time of beginning of fruit ripening** |

 |  |  |  |  |  |
|  |  | very early |  |  |  | Érdi ipari, Ţarina | 1 |
|  |  | very early to early |  |  |  | Érdi jubileum | 2 |
|  |  | early |  |  |  | Meteor korai, Piramis | 3 |
|  |  | early to medium |  |  |  | Érdi nagygyümölcsű | 4 |
|  |  | medium |  |  |  | Érdi bőtermő, Favorit | 5 |
|  |  | medium to late |  |  |  | Pándy 7 | 6 |
|  |  | late |  |  |  | Kántorjánosi 3, Pándy 279 | 7 |
|  |  | late to very late |  |  |  | Bianchi di Offagna | 8 |
|  |  | very late |  |  |  | Gerema, Vowi | 9 |

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| *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 should 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 early summer.(c)      Nectaries: Observations of nectaries should be made in early summer on fully developed leaves  from the middle third of a well-developed current season’s shoot.(d)      Stipule: Observations of stipule should be made on the fifth or sixth fully developed leaf of a long shoot, during the rapid growth.  (e)     Flower:  Unless otherwise stated, all observations on the flower should be made on fully developed flowers at the beginning of anther dehiscence. (f)     Fruit and Stone:  All observations on the fruit and stone should be made at full maturity. *8.2 Explanations for individual characteristics*Ad. 1:  Tree: vigorThe tree vigor should be considered as the overall abundance of vegetative growth. Ad. 2:  Tree:  habit

|  |  |  |  |
| --- | --- | --- | --- |
| wordml://76.png | wordml://77.png | wordml://78.png | wordml://79.png |
| 1 | 2 | 3 | 4 |
| upright | semi-upright | spreading | drooping |

Ad. 3:  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. Ad. 4:  Tree:  bud distribution             Observations should be carried out before picking time. Ad. 7:  One-year-old shoot:  lenght of internode             Should be observed in the dormant period.Ad. 20:  Stipule:  attitude

|  |  |  |
| --- | --- | --- |
| wordml://80.png | wordml://81.png | wordml://82.png |
| 1 | 2 | 3 |
| leaning away from shoot | adpressed to shoot | leaning across shoot |

 Ad. 22:  Stipule:  extensions of margins

|  |  |  |
| --- | --- | --- |
| wordml://83.png | wordml://84.png | wordml://85.png |
| 1 | 2 | 3 |
| absent or weak | medium | strong |

 Ad. 23:  Flower: diameterObservations or measurements should be carried out on completely opened flowers with petals pressed into horizontal position.Ad. 24:  Flower: arrangement of petals

|  |  |  |
| --- | --- | --- |
| wordml://86.png | wordml://87.png | wordml://88.png |
| 1 | 2 | 3 |
| free | intermediate | overlapping |

 Ad. 25:  Flower: shape of petal

|  |
| --- |
| wordml://89.png |
| 1 | 2 | 3 |
| circular | medium obovate | broad obovate |

  Ad. 26:  Flower: arrangement

|  |  |
| --- | --- |
| wordml://90.png | wordml://91.png |
| 1 | 2 |
| solitary | double |
|  |  |
| wordml://92.png | wordml://93.png |
| 3 | 4 |
| in clusters | irregular |

Ad. 28:  Fruit: shape in ventral view

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| wordml://94.png | wordml://95.png | wordml://96.png | wordml://97.png | wordml://98.png |
| 1 | 2 | 3 | 4 | 5 |
| reniform | oblate | circular | elliptic | cordate |

 Ad. 29:  Fruit: pistil end

|  |
| --- |
| wordml://99.png |
| 1 | 2 | 3 |
| pointed | flat | depressed |

Ad. 44:  Stone: shape in ventral view

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| --- | --- | --- |
| wordml://100.png | wordml://101.png | wordml://102.png |
| 1 | 2 | 3 |
| narrow elliptic | broad elliptic | circular |

 Ad. 46:  Time of beginning of flowering When 5-10% open flowers can be observed.  Ad. 47:  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. |

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| *8.3* |

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|  *Synonym(s) of Example Varieties*

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| Example Varieties | Synonym(s) |
| Cigánymeggy | Zigeunersauerkirsche |
| Fanal | Heimanns Konservenweichsel |
| Kelleriis 16 | Morellenfeuer |
| Petri | Lövőpetri |
| Schattenmorelle | Griotte du Nord, Lotovka, Latos meggy, Łutówka, Morella pozdní |

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| 9. | Literature |

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| 10. | Technical Questionnaire |

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

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|  | Application date:(not to be filled in by the applicant) |
| TECHNICAL QUESTIONNAIREto be completed in connection with an application for plant breeders' rights |

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| 1. | Subject of the Technical Questionnaire |
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| 1.1.1 |

 | Botanical name |

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| *Prunus cerasus* L. |

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| 1.1.2 |

 | Common name |

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| Sour cherry, Tart cherry, Morello |

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| 1.2.1 |

 | Botanical name |

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| *Prunus × gondouinii* (Poit. & Turpin) Rehder |

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| 1.2.2 |

 | Common name |

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| Duke cherry |

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| 1.3.1 |

 | Botanical name |

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| *P*. *avium* L. x *P*. *cerasus* L |

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| 1.3.2 |

 | Common name |

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| 2. | Applicant |
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|  | Name |  |  |
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|  | Address |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |   |  |
|  | Telephone No. |  |  |
|  |  |  |   |  |
|  | Fax No. |  |  |
|  |  |  |   |  |
|  | E-mail address |  |  |
|  |  |  |   |  |
|  | Breeder (if different from |  |  |
|  | applicant) |  |  |
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| 3. | Proposed denomination and breeder's reference |
|  |  |  |   |  |
|  | Proposed denomination |  |  |
|  | (if available) |  |  |
|  |  |  |   |  |
|  | Breeder's reference |  |  |
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| #4. |

 | Information on the breeding scheme and propagation of the variety |
|  |  |   |
|  | 4.1 | Breeding scheme |
|  | Variety resulting from:  |
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|

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| --- |
| 4.1.1 |

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| --- |
| Crossing  |

 |  |
|

|  |
| --- |
| (a) |

 |

|  |
| --- |
| controlled cross  |

 | [ ] |
|

|  |
| --- |
| (b) |

 |

|  |
| --- |
| partially known cross  |

 | [ ] |
|  |

|  |
| --- |
| (please state known parent variety(ies))(…………………..……………..…)                          x        (……………..…………………..…)female parent                                                                     male parent |

 |
|

|  |
| --- |
| (c) |

 |

|  |
| --- |
| unknown cross  |

 | [ ] |
|  |  |
|

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| 4.1.2 |

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|  |
| --- |
| Mutation (please state parent variety) |

 | [ ] |
|  |      |
|  |  |
|

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| --- |
| 4.1.3 |

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| --- |
| Discovery and development (please state where and when discovered and how developed) |

 | [ ] |
|  |      |
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|

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| --- |
| 4.1.4 |

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

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|  |
| --- |
| Vegetative propagation |

 |  |
|

|  |
| --- |
| (a) |

 |

|  |
| --- |
| Budding or grafting |

 | [ ] |
|

|  |
| --- |
| (b) |

 |

|  |
| --- |
| Other (state method) |

 | [ ] |
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|

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| 4.2.2 |

 | Other(Please provide details) | [ ] |
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| In the case of hybrid varieties the production scheme for the hybrid should be provided on a separate sheet. This should provide details of all the parent lines required for propagating the hybrid e.g.Single Hybrid      (…………………..……………..…)        x        (……………..…………………..…)      female parent                                                    male parent Three-Way Hybrid      (…………………..……………..…)        x        (……………..…………………..…)      female line                                                     male line       (…………………..……………..…)        x        (……………..…………………..…)      single hybrid used as female parent                 male parent and should identify in particular:(a) any male sterile lines(b) maintenance system of male sterile lines. |

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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). |
|  |   |  |  |

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|  | Characteristics | Example Varieties | Note |
| --- | --- | --- | --- |
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| --- |
| **5.1** |

|  |
| --- |
| **(27)** |

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| --- |
| **Fruit: size** |

 |  |  |
|  |

|  |
| --- |
| very small |

 |

|  |
| --- |
| Oblachinska |

 |

|  |
| --- |
| 1 [   ] |

 |
|  |

|  |
| --- |
| very small to small |

 |

|  |
| --- |
| Erika |

 |

|  |
| --- |
| 2 [   ] |

 |
|  |

|  |
| --- |
| small |

 |

|  |
| --- |
| Cigánymeggy 7, Cigánymeggy C. 404 |

 |

|  |
| --- |
| 3 [   ] |

 |
|  |

|  |
| --- |
| small to medium |

 |

|  |
| --- |
| Korai pipacs |

 |

|  |
| --- |
| 4 [   ] |

 |
|  |

|  |
| --- |
| medium |

 |

|  |
| --- |
| Schattenmorelle, Érdi bőtermő |

 |

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| --- |
| 5 [   ] |

 |
|  |

|  |
| --- |
| medium to large |

 |

|  |
| --- |
| Favorit, Kelleriis 16 |

 |

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| --- |
| 6 [   ] |

 |
|  |

|  |
| --- |
| large |

 |

|  |
| --- |
| Karneol, Morsam, Éva |

 |

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| --- |
| 7 [   ] |

 |
|  |

|  |
| --- |
| large to very large |

 |

|  |
| --- |
| Pándy Bb 119 |

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| --- |
| 8 [   ] |

 |
|  |

|  |
| --- |
| very large |

 |

|  |
| --- |
| Petri, Piramis, Safir |

 |

|  |
| --- |
| 9 [   ] |

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|  |  |  |  |
|  |  |  |  |
|

|  |
| --- |
| **5.2** |

|  |
| --- |
| **(36)** |

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|  |
| --- |
| **Fruit: color of skin** |

 |  |  |
|  |

|  |
| --- |
| orange red |

 |

|  |
| --- |
| Meteor, Pipacs 1 |

 |

|  |
| --- |
| 1 [   ] |

 |
|  |

|  |
| --- |
| light red |

 |

|  |
| --- |
| Favorit, Montmorency |

 |

|  |
| --- |
| 2 [   ] |

 |
|  |

|  |
| --- |
| medium red |

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|  |
| --- |
| Pándy Bb 119 |

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| --- |
| 3 [   ] |

 |
|  |

|  |
| --- |
| dark red |

 |

|  |
| --- |
| Cigánymeggy 7, Gerema, Nana |

 |

|  |
| --- |
| 4 [   ] |

 |
|  |

|  |
| --- |
| brown red |

 |

|  |
| --- |
| Karneol, Kelleriis 16, Schattenmorelle |

 |

|  |
| --- |
| 5 [   ] |

 |
|  |

|  |
| --- |
| blackish |

 |

|  |
| --- |
| North Star, Érdi jubileum |

 |

|  |
| --- |
| 6 [   ] |

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|  |  |  |  |
|  |  |  |  |
|

|  |
| --- |
| **5.3** |

|  |
| --- |
| **(37)** |

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|  |
| --- |
| **Fruit: color of flesh** |

 |  |  |
|  |

|  |
| --- |
| yellowish |

 |

|  |
| --- |
| Montmorency, Pipacs 1 |

 |

|  |
| --- |
| 1 [   ] |

 |
|  |

|  |
| --- |
| pink |

 |

|  |
| --- |
| Meteor, Pándy 279 |

 |

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| --- |
| 2 [   ] |

 |
|  |

|  |
| --- |
| medium red |

 |

|  |
| --- |
| Karneol, Kántorjánosi 3 |

 |

|  |
| --- |
| 3 [   ] |

 |
|  |

|  |
| --- |
| dark red |

 |

|  |
| --- |
| Cigánymeggy 7, Fanal |

 |

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| --- |
| 4 [   ] |

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|  |  |  |  |
|  |  |  |  |
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| --- |
| **5.4** |

|  |
| --- |
| **(38)** |

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|  |
| --- |
| **Fruit: color of juice** |

 |  |  |
|  |

|  |
| --- |
| colorless |

 |

|  |
| --- |
| Montmorency |

 |

|  |
| --- |
| 1 [   ] |

 |
|  |

|  |
| --- |
| light yellow |

 |

|  |
| --- |
| Pipacs 1 |

 |

|  |
| --- |
| 2 [   ] |

 |
|  |

|  |
| --- |
| pink |

 |

|  |
| --- |
| Meteor, Pándy 7 |

 |

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| --- |
| 3 [   ] |

 |
|  |

|  |
| --- |
| medium red |

 |

|  |
| --- |
| Karneol, Kántorjánosi 3 |

 |

|  |
| --- |
| 4 [   ] |

 |
|  |

|  |
| --- |
| dark red |

 |

|  |
| --- |
| Cigánymeggy 7, Fanal, Érdi jubileum |

 |

|  |
| --- |
| 5 [   ] |

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|  |  |  |  |

|  | Characteristics | Example Varieties | Note |
| --- | --- | --- | --- |
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| --- |
| **5.5** |

|  |
| --- |
| **(46)** |

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| --- |
| **Time of beginning of flowering** |

 |  |  |
|  |

|  |
| --- |
| very early |

 |

|  |
| --- |
| Érdi ipari |

 |

|  |
| --- |
| 1 [   ] |

 |
|  |

|  |
| --- |
| very early to early |

 |

|  |
| --- |
| Bianchi di Offagna, Érdi bőtermő |

 |

|  |
| --- |
| 2 [   ] |

 |
|  |

|  |
| --- |
| early |

 |

|  |
| --- |
| Favorit, Meteor korai |

 |

|  |
| --- |
| 3 [   ] |

 |
|  |

|  |
| --- |
| early to medium |

 |

|  |
| --- |
| Fanal |

 |

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| --- |
| 4 [   ] |

 |
|  |

|  |
| --- |
| medium |

 |

|  |
| --- |
| Cigánymeggy 7, Vowi |

 |

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| --- |
| 5 [   ] |

 |
|  |

|  |
| --- |
| medium to late |

 |

|  |
| --- |
| Érdi nagygyümölcsű |

 |

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| --- |
| 6 [   ] |

 |
|  |

|  |
| --- |
| late |

 |

|  |
| --- |
| Gerema, Kelleriis 16 |

 |

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| --- |
| 7 [   ] |

 |
|  |

|  |
| --- |
| late to very late |

 |

|  |
| --- |
| Schattenmorelle |

 |

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| --- |
| 8 [   ] |

 |
|  |

|  |
| --- |
| very late |

 |

|  |
| --- |
| Morsam |

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| --- |
| 9 [   ] |

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|  |  |  |  |
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| --- |
| **5.6** |

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| --- |
| **(47)** |

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| --- |
| **Time of beginning of fruit ripening** |

 |  |  |
|  |

|  |
| --- |
| very early |

 |

|  |
| --- |
| Érdi ipari, Ţarina |

 |

|  |
| --- |
| 1 [   ] |

 |
|  |

|  |
| --- |
| very early to early |

 |

|  |
| --- |
| Érdi jubileum |

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|  |
| --- |
| 2 [   ] |

 |
|  |

|  |
| --- |
| early |

 |

|  |
| --- |
| Meteor korai, Piramis |

 |

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| --- |
| 3 [   ] |

 |
|  |

|  |
| --- |
| early to medium |

 |

|  |
| --- |
| Érdi nagygyümölcsű |

 |

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| --- |
| 4 [   ] |

 |
|  |

|  |
| --- |
| medium |

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| --- |
| Favorit, Érdi bőtermő |

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| --- |
| 5 [   ] |

 |
|  |

|  |
| --- |
| medium to late |

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|  |
| --- |
| Pándy 7 |

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| --- |
| 6 [   ] |

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|  |

|  |
| --- |
| late |

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| --- |
| Kántorjánosi 3, Pándy 279 |

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| 7 [   ] |

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|  |
| --- |
| late to very late |

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| --- |
| Bianchi di Offagna |

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| --- |
| 8 [   ] |

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|  |
| --- |
| very late |

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| --- |
| Gerema, Vowi |

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| 9 [   ] |

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| 6. | Similar varieties and differences from these varieties |
|

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| --- |
| *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.*   |

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| --- |
| Denomination(s) of variety(ies) similar to your candidate variety |

 |

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| --- |
| 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) |

 |

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| --- |
| Describe the expression of the characteristic(s) for **your** candidate variety |

 |

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| *Example* |

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|  | 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 |
|  |  |   |  |  |
| A representative color photograph of the variety displaying its main distinguishing feature(s), should accompany the Technical Questionnaire. The photograph will provide a visual illustration of the candidate variety which supplements the information provided in the Technical Questionnaire.  The key points to consider when taking a photograph of the candidate variety are: • Indication of the date and geographic location• Correct labeling (breeder’s reference)• Good quality printed photograph (minimum 10 cm x 15 cm) and/or sufficient resolution electronic format version (minimum 960 x 1280 pixels)” Further guidance on providing photographs with the Technical Questionnaire is available in document TGP/7 "Development of Test Guidelines", Guidance Note 35 (http://www.upov.int/tgp/en/). [The link provided may be deleted by members of the Union when developing authorities’ own test guidelines.] |
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| TG/230/2(proj.2) |
| Sour Cherry; Duke Cherry , 2022-05-27 |
| 35 |

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

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| --- |
| 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”. |  |
|  |   |  |

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| --- | --- |
| 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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[End of document]