

TG/CHERRY-SO(proj.2)

ORIGINAL: English DATE: 2005-07-27

## INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS GENEVA

## **DRAFT**

#### **SOUR CHERRY**

UPOV Code: PRUNU\_CSD

Prunus cerasus L.

#### **DUKE CHERRY**

UPOV Code: PRUNU GON

Prunus ×gondouinii (Poit. & Turpin) Rehder

#### **GUIDELINES**

#### FOR THE CONDUCT OF TESTS

#### FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from Hungary

to be considered by the Technical Working Party for Fruit Crops at its thirty-sixth session, to be held in Kôfu, Japan, from September 5 to 9, 200

#### Alternative Names:\*

| Botanical name  | English                              | French       | German       | Spanish              |
|---|--------------------------------------|--------------|--------------|----------------------|
| Prunus cerasus L.,<br>Cerasus vulgaris Mill.                      | Sour cherry, Tart cherry,<br>Morello | Cerise acide | Sauerkirsche | Cerezo ácido, Guindo |
| Prunus ×gondouinii (Poit. & Turpin) Rehder, P. avium × P. cerasus | Duke cherry                          |              |              |                      |

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.

These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consult the UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]

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#### 1. <u>Subject of these Test Guidelines</u>

These Test Guidelines apply to all varieties of *Prunus cerasus* L. and *Prunus ×gondouinii* (Poit. & Turpin) Rehder.

#### 2. <u>Material Required</u>

- 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 (one-year-old grafts) or 3 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. <u>Method of Examination</u>

#### 3.1 Number of Growing Cycles

The minimum duration of tests should normally be two independent growing cycles. The growing cycle is considered to be the duration of a single growing season, beginning with bud burst, and concluding when the following dormant period ends with the swelling of new season buds.

#### 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

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

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#### 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 Number of Plants / Parts of Plants to be Examined

Unless otherwise indicated, all observations should be made on 5 plants or parts taken from each of 5 plants. In the case of parts of plants, the number to be taken from each of the plants should be 2. In particular, in the case of fruit and stone characteristics, observations should made on 15 fruits, three taken from each of five trees.

#### 3.6 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.

#### 4.2 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 For the assessment of uniformity, 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 tested, either by growing a further generation, or by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the previous 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) Fruit: size (characteristic 27);
  - (b) Fruit: color of skin (characteristic 36);
  - (c) Fruit: color of flesh (characteristic 37);
  - (d) Fruit: color of juice (characteristic 38);
  - (e) Time of beginning of flowering (characteristic 46);
  - (f) Time of beginning of fruit ripening (characteristic 47).
- 5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.

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#### 6. <u>Introduction to the Table of Characteristics</u>

### 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

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.

### 6.3 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
- (\*) Asterisked characteristic see Chapter 6.1.2
- QL Qualitative characteristic see Chapter 6.3
- QN Quantitative characteristic see Chapter 6.3
- PQ Pseudo-qualitative characteristic see Chapter 6.3
- (a) (d) See Explanations on the Table of Characteristics in Chapter 8.1
- (+) See Explanations on the Table of Characteristics in Chapter 8.2

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

|                  |     | English         | français | deutsch | español | Example Varieties/<br>Exemples/<br>Beispielssorten/<br>Variedades ejemplo | Note/<br>Nota |
|------------------|-----|-----------------|----------|---------|---------|---|---------------|
| 1.               |     | Tree: vigor     |          |         |         |   |               |
| (+)              |     |                 |          |         |         |   |               |
| QN               | (a) | very weak       |          |         |         | Kelleriis 14, Morava  | 1             |
|                  |     | weak            |          |         |         | Gerema, Samor   | 3             |
|                  |     | medium          |          |         |         | Karneol, Montmorency  | 5             |
|                  |     | strong          |          |         |         | Kántorjánosi 3,<br>Pándy Bb. 119  | 7             |
|                  |     | very strong     |          |         |         | Érdi nagygyümölcsű,<br>Piramis  | 9             |
| 2.<br>(*)<br>(+) |     | Tree: habit     |          |         |         |   |               |
| PQ               | (a) | upright         |          |         |         | Oblachinska, Piramis,<br>Țarina   | 1             |
|                  |     | semi-upright    |          |         |         | Safir, Újfehértói fürtös  | 2             |
|                  |     | spreading       |          |         |         | Karneol, Montmorency,<br>Samor  | 3             |
|                  |     | drooping        |          |         |         | Cigánymeggy 7   | 4             |
| 3.<br>(*)<br>(+) |     | Tree: branching |          |         |         |   |               |
| QN               |     | weak            |          |         |         | Meteor korai, Piramis,<br>Samor   | 3             |
|                  |     | medium          |          |         |         | Morsam, Pándy Bb 119  | 5             |
|                  |     | strong          |          |         |         | Cigánymeggy 7,<br>Montmorency, Safir                                      | 7             |

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|                  |     | English   | français | deutsch | español | Example Varieties/<br>Exemples/<br>Beispielssorten/<br>Variedades ejemplo | Note/<br>Nota |
|------------------|-----|---|----------|---------|---------|---|---------------|
| 4.               |     | Tree: bud<br>distribution   |          |         |         |   |               |
| (+)              |     |   |          |         |         |   |               |
| PQ               | (a) | along entire branch   |          |         |         | Maliga emléke, Piramis  | 1             |
|                  |     | only on the middle<br>and distal part of<br>branch                            |          |         |         | Érdi jubileum, Meteor,<br>Morava  | 2             |
|                  |     | only on distal part of branch   |          |         |         | Cigánymeggy 7, Samor,<br>Schattenmorelle,                                 | 3             |
| 5.               |     | Young shoot:<br>anthocyanin<br>coloration of apex<br>(during rapid<br>growth) |          |         |         |   |               |
| QN               |     | absent or very weak   |          |         |         | Cigánymeggy 59, Meteor  | 1             |
|                  |     | weak  |          |         |         | Montmorency,<br>Morellenfeuer   | 3             |
|                  |     | medium  |          |         |         | Érdi bőtermő, Favorit   | 5             |
|                  |     | strong  |          |         |         | Érdi jubileum, Fanal  | 7             |
|                  |     | very strong   |          |         |         | Érdi nagygyümölcsű,<br>Topas  | 9             |
| 6.               |     | Young shoot:<br>pubescence of apex<br>(during rapid<br>growth)                |          |         |         |   |               |
| QN               |     | weak  |          |         |         | Cigánymeggy 7, Csengődi,<br>Karneol                                       | 3             |
|                  |     | medium  |          |         |         | Favorit, Morava   | 5             |
|                  |     | strong  |          |         |         | Cigánymeggy 59  | 7             |
| 7.<br>(*)<br>(+) |     | Shoot: type   |          |         |         |   |               |
| QL               | (a) | normal  |          |         |         | Fanal, Montmorency,<br>Pándy 279  | 1             |
|                  |     | spur  |          |         |         |   | 2             |

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|            |              | English  | français | deutsch | español | Example Varieties/<br>Exemples/<br>Beispielssorten/<br>Variedades ejemplo | Note/<br>Nota |
|------------|--------------|--|----------|---------|---------|---|---------------|
| 8.         |              | One-year-old shoot:<br>number of lenticels               |          |         |         |   |               |
| QN         | (a)          | few  |          |         |         | Gerema, Morellenfeuer   | 3             |
|            |              | medium   |          |         |         | Meteor, Pándy Bb. 119   | 5             |
|            |              | many   |          |         |         | Maliga emléke,<br>Meteor korai, Piramis                                   | 7             |
| 9.         |              | Leaf blade: length                                       |          |         |         |   |               |
| QN         | (b)          | short  |          |         |         | Cigánymeggy C. 404,<br>Meteor, Oblachinska                                | 3             |
|            |              | medium   |          |         |         | Karneol, Kántorjánosi 3,<br>Morellenfeuer                                 | 5             |
|            |              | long   |          |         |         | Érdi bőtermő, Favorit,<br>Maliga emléke                                   | 7             |
| 10.        |              | Leaf blade: width  |          |         |         |   |               |
| QN         | N (b)        | narrow   |          |         |         | Montmorency,<br>Schattenmorelle   | 3             |
|            |              | medium   |          |         |         | Karneol, Morellenfeuer,<br>Pándy Bb 119                                   | 5             |
|            |              | broad  |          |         |         | Érdi bőtermő,<br>Maliga emléke  | 7             |
| 11.<br>(*) |              | Leaf blade: ratio length/width                           |          |         |         |   |               |
| QN         | (b)          | small  |          |         |         | Cigánymeggy 7,<br>Morellenfeuer   | 3             |
|            |              | medium   |          |         |         | Karneol, Maliga emléke  | 5             |
|            |              | large  |          |         |         | Favorit, Meteor korai,<br>Oblachinska                                     | 7             |
| 12.        |              | Leaf blade: intensity<br>of green color of<br>upper side | ,        |         |         |   |               |
| QN         | (b)          | light  |          |         |         | Cigánymeggy 59, Pipacs 1  | 3             |
|            | <b>1</b> (b) | medium   |          |         |         | Karneol, Morina,<br>Schattenmorelle                                       | 5             |
|            |              | dark   |          |         |         | Pándy Bb. 119   | 7             |

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|                   |     | English   | français | deutsch | español | Example Varieties/<br>Exemples/<br>Beispielssorten/<br>Variedades ejemplo | Note/<br>Nota |
|-------------------|-----|---|----------|---------|---------|---|---------------|
| 13.               |     | Leaf blade:<br>glossiness                         |          |         |         |   |               |
| QN                | (b) | absent or weak                                    |          |         |         | Csengődi, Schattenmorelle   | 3             |
|                   |     | medium  |          |         |         | Debreceni bőtermő, Nana   | 5             |
|                   |     | strong  |          |         |         | Karneol, Montmorency  | 7             |
| 14.<br>(*)        |     | Leaf: length of petiole                           |          |         |         |   |               |
| QN                |     | short   |          |         |         | Karneol, Morellenfeuer,<br>Oblachinska                                    | 3             |
|                   |     | medium  |          |         |         | Maliga emléke,<br>Montmorency,<br>Újfehértói fürtös                       | 5             |
|                   |     | long  |          |         |         | Favorit, Piramis  | 7             |
| 15.               |     | Leaf: athocyanin coloration of petio (upper side) | le       |         |         |   |               |
| QN                | (b) | weak  |          |         |         | Gerema, Oblachinska   | 3             |
|                   |     | medium  |          |         |         | Favorit   | 5             |
|                   |     | strong  |          |         |         | Fanal, Montmorency, Safir   | 7             |
| 16.               |     | Leaf: ratio length of blade / length of petiole   | of       |         |         |   |               |
| QN                | (b) | small   |          |         |         | Favorit, Pipacs 1   | 3             |
|                   |     | medium  |          |         |         | Montmorency,<br>Schattenmorelle   | 5             |
|                   |     | large   |          |         |         | Karneol, Meteor,<br>Morellenfeuer   | 7             |
| 17.<br>(*)<br>(+) |     | Leaf: nectaries                                   |          |         |         |   |               |
| QL                |     | absent  |          |         |         | North Star, Oblachinska   | 1             |
|                   |     | present   |          |         |         | Favorit, Piramis  | 9             |

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|     |     | English   | français | deutsch | español | Example Varieties/<br>Exemples/<br>Beispielssorten/<br>Variedades ejemplo | Note/<br>Nota |
|-----|-----|---|----------|---------|---------|---|---------------|
| 18. |     | Leaf: color of nectaries                            |          |         |         |   |               |
| (+) |     |   |          |         |         |   |               |
| PQ  |     | greenish yellow                                     |          |         |         | Samor, Újfehértói fürtös  | 1             |
|     |     | orange yellow                                       |          |         |         | Kántorjánosi 3, Safir,<br>Topas   | 2             |
|     |     | light red   |          |         |         | Cigánymeggy 7,<br>Érdi bőtermő, Oblachinska                               | 3             |
|     |     | dark red  |          |         |         | Meteor, Nana  | 4             |
|     |     | brownish  |          |         |         | Karneol, Morina, Morsam   | 5             |
| 19. |     | Petiole: position of                                |          |         |         |   |               |
| (+) |     | nectaries   |          |         |         |   |               |
| PQ  |     | at the base of leaf<br>blade                        |          |         |         | Karneol, Meteor   | 1             |
|     |     | both at the base of<br>leaf blade and on<br>petiole |          |         |         | Favorit, Montmorency  | 2             |
|     |     | on petiole  |          |         |         | Kántorjánosi 3, Pipacs 1,<br>Țarina                                       | 3             |
| 20. |     | Stipule: size                                       |          |         |         |   |               |
| (+) |     |   |          |         |         |   |               |
| QN  | (b) | small   |          |         |         | Favorit, Schattenmorelle,<br>Újfehértói fürtös                            | 3             |
|     |     | medium  |          |         |         | Debreceni bőtermő,<br>Maliga emléke, Samor                                | 5             |
|     |     | large   |          |         |         | Meteor korai, Morsam  | 7             |
| 21. |     | Stipule: extension                                  |          |         |         |   |               |
| (+) |     |   |          |         |         |   |               |
| QN  | (b) | absent or weak                                      |          |         |         | Oblachinska,<br>Schattenmorelle,<br>Újfehértói fürtös                     | 1             |
|     |     | medium  |          |         |         | Piramis, Samor  | 2             |
|     |     | strong  |          |         |         | Csengődi, Meteor korai,<br>Morellenfeuer                                  | 3             |

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|            |     | English                             | français | deutsch | español | Example Varieties/<br>Exemples/<br>Beispielssorten/<br>Variedades ejemplo | Note/<br>Nota |
|------------|-----|-------------------------------------|----------|---------|---------|---|---------------|
| 22.        |     | Stipule: attitude                   |          |         |         |   |               |
| (+)        |     |                                     |          |         |         |   |               |
| QN         | (b) | leaning away from shoot             |          |         |         | Meteor, Morellenfeuer,<br>Samor   | 1             |
|            |     | adpressed to shoot                  |          |         |         | Favorit, Pándy 279  | 2             |
|            |     | leaning across shoot                |          |         |         | Csengődi, Pipacs 1,<br>Piramis  | 3             |
| 23.        |     | Flower: diameter                    |          |         |         |   |               |
| (+)        |     |                                     |          |         |         |   |               |
| QN         | (c) | small                               |          |         |         | Oblachinska, Samor  | 3             |
|            |     | medium                              |          |         |         | Montmorency,<br>Morellenfeuer,<br>Újfehértói fürtös                       | 5             |
|            |     | large                               |          |         |         | Érdi bőtermő,<br>Kántorjánosi 3,<br>Pándy Bb. 119                         | 7             |
| 24.<br>(+) |     | Flower:<br>arrangement of<br>petals |          |         |         |   |               |
| QN         | (c) | free                                |          |         |         | Érdi bőtermő,<br>Morellenfeuer,<br>Újfehértói fürtös                      | 1             |
|            |     | intermediate                        |          |         |         | Érdi jubileum,<br>Montmorency,<br>Schattenmorelle                         | 2             |
|            |     | overlapping                         |          |         |         | Favorit, Meteor korai,<br>Oblachinska                                     | 3             |
| 25.        |     | Flower: shape of                    |          |         |         |   |               |
| (+)        |     | petal                               |          |         |         |   |               |
| PQ         | (c) | circular                            |          |         |         | Favorit, Meteor,<br>Oblachinska   | 1             |
|            |     | medium obovate                      |          |         |         | Morellenfeuer, Pipacs 1,<br>Safir   | 2             |
|            |     | broad obovate                       |          |         |         | Érdi bőtermő,<br>Korai pipacs,<br>Schattenmorelle                         | 3             |

### TG/CHERRY\_SO(proj.2) Sour cherry; Duke cherry/Cerise acide/Sauerkirsche/Cerezo ácido, 2005-07-27 - 13 -

|                   |     | English                      | français | deutsch | español | Example Varieties/<br>Exemples/<br>Beispielssorten/<br>Variedades ejemplo | Note/<br>Nota |
|-------------------|-----|------------------------------|----------|---------|---------|---|---------------|
| 26.               |     | Flower: arrangement          |          |         |         |   |               |
| (+)               |     | <b></b>                      |          |         |         |   |               |
| PQ                | (c) | solitary                     |          |         |         | Cerella, Nabella  | 1             |
|                   |     | double                       |          |         |         | Safir   | 2             |
|                   |     | in clusters                  |          |         |         | Stevnsbear,<br>Újfehértói fürtös  | 3             |
|                   |     | irregular                    |          |         |         | Schattenmorelle   | 4             |
| 27.<br>(*)        |     | Fruit: size                  |          |         |         |   |               |
| QN                |     | very small                   |          |         |         | Oblachinska, Stevnsbaer   | 1             |
|                   |     | small                        |          |         |         | Cigánymeggy 7,<br>Cigánymeggy C. 404                                      | 3             |
|                   |     | medium                       |          |         |         | Érdi bőtermő,<br>Schattenmorelle  | 5             |
|                   |     | large                        |          |         |         | Favorit, Karneol,<br>Pándy Bb. 119  | 7             |
|                   |     | very large                   |          |         |         | Érdi nagygyümölcsű,<br>Piramis, Safir                                     | 9             |
| 28.<br>(*)<br>(+) |     | Fruit: shape in ventral view |          |         |         |   |               |
| PQ                | (d) | reniform                     |          |         |         | Érdi jubileum,<br>Pándy Bb. 119   | 1             |
|                   |     | oblate                       |          |         |         | Montmorency, Morina   | 2             |
|                   |     | circular                     |          |         |         | Maliga emléke, Nana   | 3             |
|                   |     | oblong                       |          |         |         | Csengődi, Karneol,<br>Morsam  | 4             |

# TG/CHERRY\_SO(proj.2) Sour cherry; Duke cherry/Cerise acide/Sauerkirsche/Cerezo ácido, 2005-07-27 - 14 -

|            |        | English                                | français | deutsch | español | Example Varieties/<br>Exemples/<br>Beispielssorten/<br>Variedades ejemplo | Note/<br>Nota |
|------------|--------|--|----------|---------|---------|---|---------------|
| 29.        |        | Fruit: pistil end                      |          |         |         |   |               |
| (+)        |        |  |          |         |         |   |               |
| QN         | (d)    | prominent                              |          |         |         | Favorit, Morsam   | 1             |
|            |        | flat                                   |          |         |         | Korai pipacs, Samor   | 2             |
|            |        | depressed                              |          |         |         | Cigánymeggy C. 404,<br>Montmorency,<br>Schattenmorelle                    | 3             |
| 30.<br>(*) |        | Fruit: length of stalk                 |          |         |         |   |               |
| QN         | QN (d) | very short                             |          |         |         | Maliga emléke,<br>Montmorency   | 1             |
|            |        | short                                  |          |         |         | Nana, Piramis   | 3             |
|            |        | medium                                 |          |         |         | Morina, Pándy Bb. 119   | 5             |
|            |        | long                                   |          |         |         | Favorit   | 7             |
|            |        | very long                              |          |         |         | Csengődi, Pipacs 1  | 9             |
| 31.        |        | Fruit: thickness of stalk              |          |         |         |   |               |
| QN         | (d)    | thin                                   |          |         |         | Morsam, Schattenmorelle   | 3             |
|            |        | medium                                 |          |         |         | Karneol, Pándy 279  | 5             |
|            |        | thick                                  |          |         |         | Maliga emléke, Piramis  | 7             |
| 32.<br>(*) |        | Fruit: anthocyanin coloration of stalk |          |         |         |   |               |
| QL         | (d)    | absent                                 |          |         |         | Meteor korai  | 1             |
|            |        | present                                |          |         |         | Újfehértói fürtös   | 9             |
| 33.        |        | Fruit: number of bracts on stalk       |          |         |         |   |               |
| QN         | (d)    | absent or few                          |          |         |         | Piramis, Țarina   | 1             |
|            |        | medium                                 |          |         |         | Érdi bőtermő, Morina,   | 2             |
|            |        | many                                   |          |         |         | Gerema, Kántorjánosi 3,<br>Morellenfeuer                                  | 3             |

# TG/CHERRY\_SO(proj.2) Sour cherry; Duke cherry/Cerise acide/Sauerkirsche/Cerezo ácido, 2005-07-27 - 15 -

|            |     | English  | français | deutsch | español | Example Varieties/<br>Exemples/<br>Beispielssorten/<br>Variedades ejemplo | Note/<br>Nota |
|------------|-----|--|----------|---------|---------|---|---------------|
| 34.        |     | Fruit: size of bracts<br>on stalk                    |          |         |         |   |               |
| QN         | (d) | small  |          |         |         | Érdi bőtermő,<br>Maliga emléke  | 3             |
|            |     | medium   |          |         |         | Cigánymeggy C. 404,<br>Favorit  | 5             |
|            |     | large  |          |         |         | Kántorjánosi 3,<br>Újfehértói fürtös                                      | 7             |
| 35.        |     | Fruit: abscision<br>layer between stalk<br>and fruit |          |         |         |   |               |
| QL         | (d) | absent   |          |         |         | Csengődi, Meteor korai  | 1             |
|            |     | present  |          |         |         | Karneol, Újfehértói fürtös  | 9             |
| 36.<br>(*) |     | Fruit: color of skin                                 |          |         |         |   |               |
| PQ         | (d) | orange red   |          |         |         | Meteor, Pipacs 1  | 1             |
|            |     | light red  |          |         |         | Favorit, Montmorency  | 2             |
|            |     | medium red   |          |         |         | Pándy Bb. 119   | 3             |
|            |     | dark red   |          |         |         | Cigánymeggy 7, Gerema,<br>Nana  | 4             |
|            |     | brown red  |          |         |         | Karneol, Morellenfeuer,<br>Schattenmorelle                                | 5             |
|            |     | blackish   |          |         |         | Dropia, North Star  | 6             |
| 37.<br>(*) |     | Fruit: color of flesh                                |          |         |         |   |               |
| PQ         | (d) | yellowish  |          |         |         | Montmorency, Pipacs 1   | 1             |
|            |     | pink   |          |         |         | Meteor, Pándy 279   | 2             |
|            |     | medium red   |          |         |         | Kántorjánosi 3, Karneol   | 3             |
|            |     | dark red   |          |         |         | Cigánymeggy 7, Fanal  | 4             |

# TG/CHERRY\_SO(proj.2) Sour cherry; Duke cherry/Cerise acide/Sauerkirsche/Cerezo ácido, 2005-07-27 - 16 -

|            |     | English               | français | deutsch | español | Example Varieties/<br>Exemples/<br>Beispielssorten/<br>Variedades ejemplo | Note/<br>Nota |
|------------|-----|-----------------------|----------|---------|---------|---|---------------|
| 38.<br>(*) |     | Fruit: color of juice |          |         |         |   |               |
| PQ         | (d) | colorless             |          |         |         | Montmorency   | 1             |
|            |     | whitish yellow        |          |         |         | Pipacs 1  | 2             |
|            |     | pink                  |          |         |         | Meteor, Pándy   | 3             |
|            |     | medium red            |          |         |         | Kántorjánosi 3, Karneol   | 4             |
|            |     | dark red              |          |         |         | Cigánymeggy 7,<br>Érdi jubileum, Fanal                                    | 5             |
| 39.<br>(*) |     | Fruit: firmness       |          |         |         |   |               |
| QN         | (d) | soft                  |          |         |         | Csengődi, Samor   | 3             |
|            |     | medium                |          |         |         | Karneol, Pándy 279  | 5             |
|            |     | firm                  |          |         |         | Érdi jubileum   | 7             |
| 40.        |     | Fruit: acidity        |          |         |         |   |               |
| QN         | (d) | very low              |          |         |         | Érdi nagygyümölcsű,<br>Meteor korai                                       | 1             |
|            |     | low                   |          |         |         | Érdi bőtermő, Favorit   | 3             |
|            |     | medium                |          |         |         | Impératrice Eugénie,<br>Pándy 279   | 5             |
|            |     | high                  |          |         |         | Meteor, Montmorency   | 7             |
|            |     | very high             |          |         |         | Cigánymeggy 7,<br>Schattenmorelle   | 9             |
| 41.        |     | Fruit: sweetness      |          |         |         |   |               |
| QN         | (d) | weak                  |          |         |         | Montmorency   | 3             |
|            |     | medium                |          |         |         | Pándy 279   | 5             |
|            |     | strong                |          |         |         | Érdi jubileum, Favorit,<br>Korai pipacs                                   | 7             |

### TG/CHERRY\_SO(proj.2) Sour cherry; Duke cherry/Cerise acide/Sauerkirsche/Cerezo ácido, 2005-07-27 - 17 -

|                   |     | English  | français | deutsch | español | Example Varieties/<br>Exemples/<br>Beispielssorten/<br>Variedades ejemplo | Note/<br>Nota |
|-------------------|-----|--|----------|---------|---------|---|---------------|
| 42.               |     | Fruit: juiciness                               |          |         |         |   |               |
| QN                | (d) | weak   |          |         |         | Érdi jubileum,<br>Korai pipacs  | 3             |
|                   |     | medium   |          |         |         | Maliga emléke, Pándy 279,   | 5             |
|                   |     | strong   |          |         |         | Csengődi, Favorit,<br>Montmorency,  | 7             |
| 43.<br>(*)        |     | Stone: size                                    |          |         |         |   |               |
| QN                | (d) | small  |          |         |         | Oblachinska, Stevnsbaer   | 3             |
|                   |     | medium   |          |         |         | Érdi bőtermő,<br>Schattenmorelle  | 5             |
|                   |     | large  |          |         |         | Maliga emléke,<br>Pándy Bb 119  | 7             |
| 44.<br>(*)<br>(+) |     | Stone: shape in ventral view                   |          |         |         |   |               |
| QN                | (d) | narrow elliptic                                |          |         |         | Csengödi, Meteor  | 1             |
|                   |     | broad elliptic                                 |          |         |         | Fanal, Maliga emléke  | 2             |
|                   |     | circular                                       |          |         |         | Érdi jubileum,<br>Morellenfeuer   | 3             |
| 45.<br>(*)        |     | Fruit: ratio weight of fruit / weight of stone |          |         |         |   |               |
| QN                | (d) | small  |          |         |         | Cigánymeggy 7,<br>Érdi jubileum, Karneol                                  | 3             |
|                   |     | medium   |          |         |         | Érdi bőtermő,<br>Schattenmorelle  | 5             |
|                   |     | large  |          |         |         | Érdi nagygyümölcsű,<br>Meteor, Piramis                                    | 7             |

# TG/CHERRY\_SO(proj.2) Sour cherry; Duke cherry/Cerise acide/Sauerkirsche/Cerezo ácido, 2005-07-27 - 18 -

|                   | English                             | français | deutsch | español | Example Varieties/<br>Exemples/<br>Beispielssorten/<br>Variedades ejemplo | Note/<br>Nota |
|-------------------|-------------------------------------|----------|---------|---------|---|---------------|
| 46.<br>(*)<br>(+) | Time of beginning of flowering      | nning    |         |         |   |               |
| QN                | very early                          |          |         |         | Érdi bőtermő  | 1             |
|                   | early                               |          |         |         | Favorit, Meteor korai   | 3             |
|                   | medium                              |          |         |         | Cigánymeggy 7, Vowi   | 5             |
|                   | late                                |          |         |         | Gerema, Morellenfeuer   | 7             |
|                   | very late                           |          |         |         | Schattenmorelle   | 9             |
| 47.<br>(*)<br>(+) | Time of beginning of fruit ripening |          |         |         |   |               |
| QN                | very early                          |          |         |         |   | 1             |
|                   | early                               |          |         |         | Impératrice Eugénie,<br>Meteor korai                                      | 3             |
|                   | medium                              |          |         |         | Érdi bőtermő, Favorit   | 5             |
|                   | late                                |          |         |         | Pándy 279, Kántorjánosi 3   | 7             |
|                   | very late                           |          |         |         | Gerema, Nana, Vowi  | 9             |

## TG/CHERRY-SO(proj.2) Sour cherry; Duke cherry, 2005-07-27

#### 8. Explanations on the Table of Characteristics

#### 8.1 Explanations covering several characteristics

Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below:

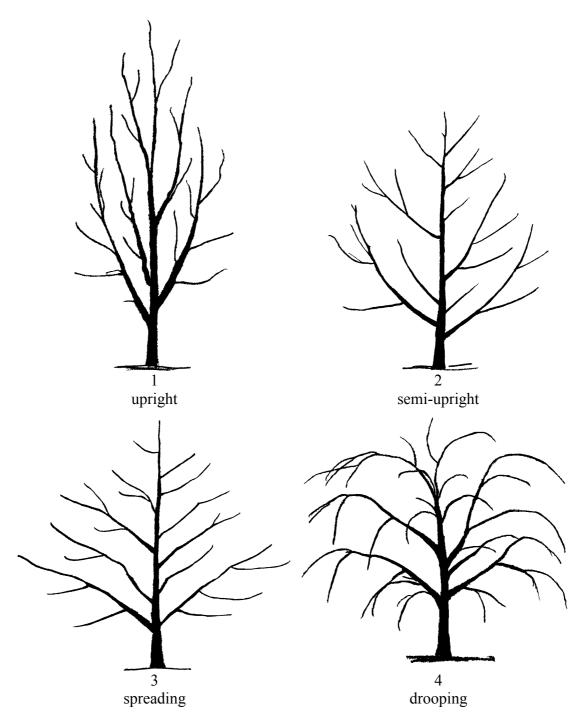
- (a) <u>Tree/One-year-old shoot</u>: Unless otherwise stated, all observations on the tree and on the one-year-old shoot should be made during winter, on trees that have fruited at least once.
- (b) <u>Leaf</u>: Unless otherwise stated, all observations of the leaf should be made on the middle fully developed leaves of a spur in summer.
- (c) <u>Flower</u>: Unless otherwise stated, all observations on the flower should be made on fully developed flowers at the beginning of anther dehiscence.
- (d) <u>Fruit and Stone</u>: All observations on the fruit and stone should be made at full maturity.

## 8.2 Explanations for individual characteristics

## Ad. 1: Tree: vigor

The tree vigor should be considered as the overall abundance of vegetative growth.

## Ad. 2: Tree: habit



#### 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: Shoot: type





Ad. 17: Leaf: nectaries

Ad. 18: Leaf: color of nectaries

Ad. 19: Petiole: position of nectaries

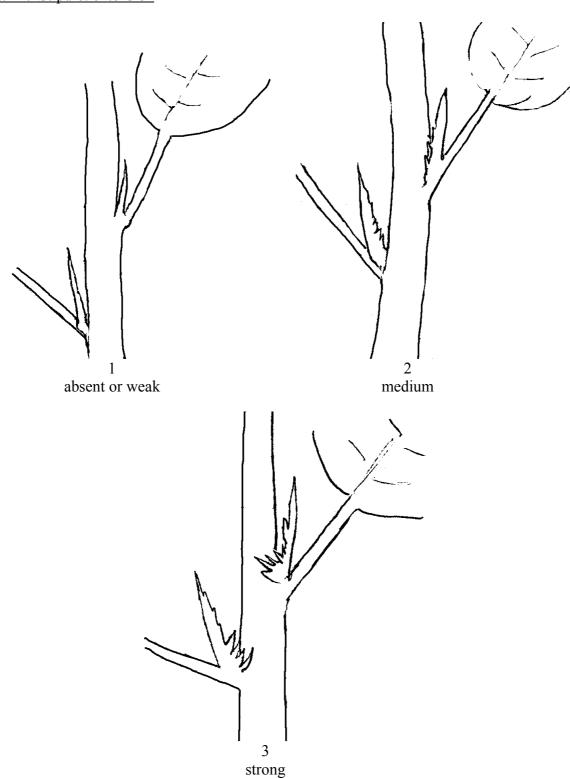
Observations of these characteristics should be made in summer on fully developed leaves from the middle third of a well developed current season's shoot.

### TG/CHERRY-SO(proj.2) Sour cherry; Duke cherry, 2005-07-27 - 22 -

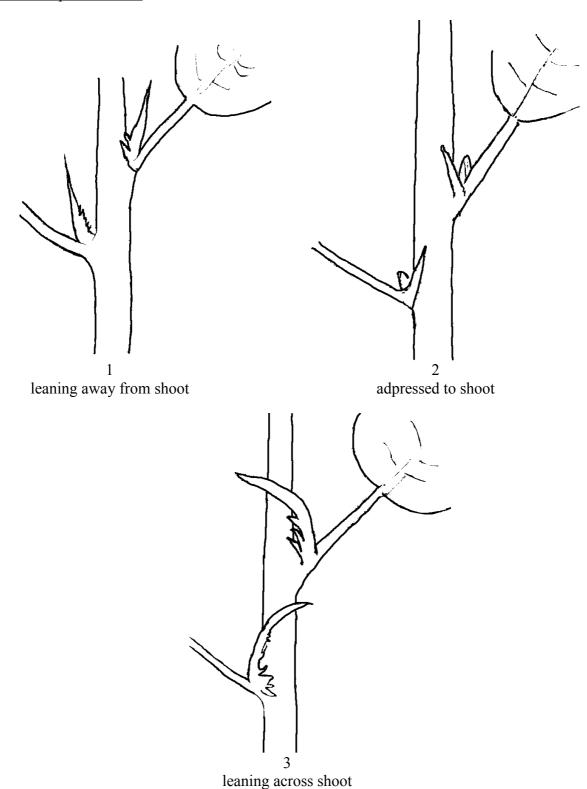
Ad. 20: Stipule: size
Ad. 21: Stipule: extension
Ad. 22: Stipule: attitude

All observations of stipule should be made on the fifth or sixth fully developed leaf of a long shoot, during rapid growth.

Ad. 21: Stipule: extension



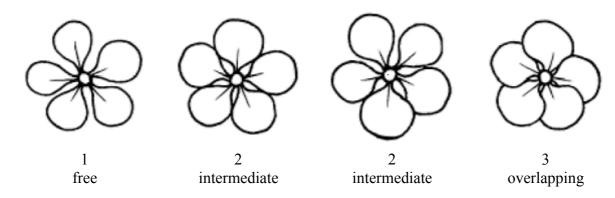
## Ad. 22: Stipule: attitude



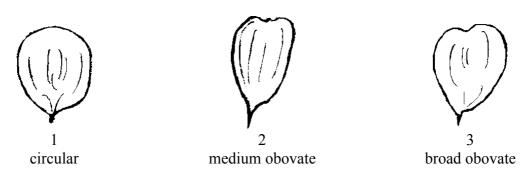
## Ad. 23: Flower: diameter

Observations or measurements should be carried out on completely opened flowers with petals pressed into horizontal position.

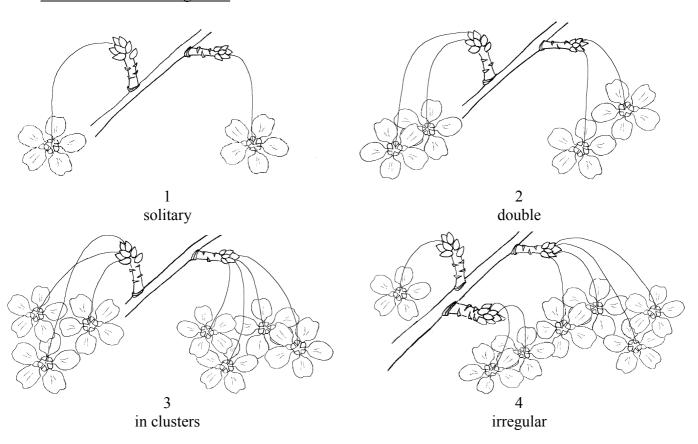
## Ad. 24: Flower: arrangement of petals



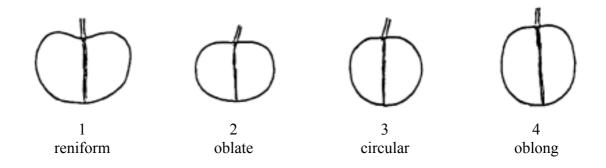
Ad. 25: Flower: shape of petal



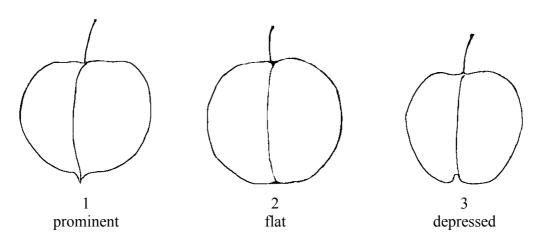
Ad. 26: Flower: arrangement



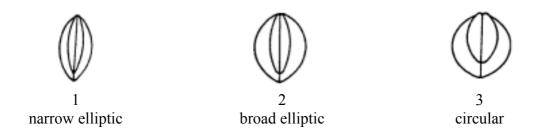
### Ad. 28: Fruit: shape in ventral view



### Ad. 29: Fruit: pistil end



#### Ad. 44: Stone: shape in ventral view



#### 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% ripen 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.

### TG/CHERRY-SO(proj.2) Sour cherry; Duke cherry, 2005-07-27 - 26 -

## 8.3 Synonym(s) of Example Varieties

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

#### TG/CHERRY-SO(proj.2) Sour cherry; Duke cherry, 2005-07-27 - 27 -

#### 9. <u>Literature</u>

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## 10. <u>Technical Questionnaire</u>

| TEC | CHNICA   | AL 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.  | Subjec   | ct of the Technical Question | onnaire              |  |  |  |  |  |
|     | 1.1.1  | Botanical Name               | runus cerasus L.     |  |  |  |  |  |
|     | 1.1.2  | Common Name S                | OUR CHERRY           |  |  |  |  |  |
|     | 1.2.1  | Botanical Name               | runus ×gondouinii (l | Poit. & Turpin) Rehder                                   |  |  |  |  |
|     | 1.2.2  | Common Name                  | OUKE CHERRY          |  |  |  |  |  |
| 2.  | Applic   | cant                         |                      |  |  |  |  |  |
|     | Name   |                              |                      |  |  |  |  |  |
|     | Addre  | SS                           |                      |  |  |  |  |  |
|     |  |                              |                      |  |  |  |  |  |
|     | Telepl   | none No.                     |                      |  |  |  |  |  |
|     | Fax N  | 0.                           |                      |  |  |  |  |  |
|     | E-mai  | l address                    |                      |  |  |  |  |  |
|     | Breed  | er (if different from applic | ant)                 |  |  |  |  |  |
|     |  |                              |                      |  |  |  |  |  |
| 3.  | Propos   | sed denomination and bree    | eder's reference     |  |  |  |  |  |
|     | _  | sed denomination lilable)    |                      |  |  |  |  |  |
|     | Breed  | er's reference               |                      |  |  |  |  |  |

#### TG/CHERRY-SO(proj.2) Sour cherry; Duke cherry, 2005-07-27 - 29 -

| TECHNICAL QUESTIONNAIRE | Page $(x)$ of $\{y\}$ | Reference Number: |
|-------------------------|-----------------------|-------------------|

| <sup>#</sup> 4. | Inform         | mation           | on the breeding scheme and propagation of the variety                             |   |   |  |  |
|-----------------|----------------|------------------|---|---|---|--|--|
|                 | Variet         | ty resul         | Iting from:   |   |   |  |  |
|                 | 4.1.1 Crossing |                  |   |   |   |  |  |
|                 |                | (a)              | controlled cross<br>(please state parent varieties)                               | [ | ] |  |  |
|                 |                | (b)              | partially known cross (please state known parent variety(ies))                    | [ | ] |  |  |
|                 |                | (c)              | unknown cross   | [ | ] |  |  |
|                 | 4.1.2          | Muta<br>(plea    | tion<br>se state parent variety)  | [ | ] |  |  |
|                 | 4.1.3          |                  | overy and development<br>se state where and when discovered<br>and how developed) | [ | 1 |  |  |
|                 | 4.1.4          | Other (plea      | se provide details)   | [ | ] |  |  |
|                 | 4.2            | Method           | d of propagating the variety  |   |   |  |  |
|                 | ,              | 4.2.1            | Vegetative propagation  |   |   |  |  |
|                 |                | (8               | a) budding or grafting  | [ | ] |  |  |
|                 |                | (1               | b) other (state method)   | [ | ] |  |  |
|                 |                | 4.2.2<br>(please | Other e provide details)  | [ | ] |  |  |
|                 |                |                  |   |   |   |  |  |

<sup>&</sup>lt;sup>#</sup> Aurhorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

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|-------------------------|-----------------------|-------------------|--|

5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

|             | Characteristics             | Everyla Variation                          | NI-4- |
|-------------|-----------------------------|--|-------|
|             | Characteristics             | Example Varieties                          | Note  |
| 5.1<br>(27) | Fruit: size                 |  |       |
|             | very small                  | Oblachinska, Stevnsbaer                    | 1[ ]  |
|             | small                       | Cigánymeggy 7,<br>Cigánymeggy C. 404       | 3[ ]  |
|             | medium                      | Érdi bőtermő, Schattenmorelle              | 5[ ]  |
|             | large                       | Favorit, Karneol, Pándy Bb. 119            | 7[ ]  |
|             | very large                  | Érdi nagygyümölcsű, Piramis, Safir         | 9[ ]  |
| 5.2<br>(36) | 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, Morellenfeuer,<br>Schattenmorelle | 5[ ]  |
|             | blackish                    | Dropia, North Star                         | 6[ ]  |
| 5.3<br>(37) | 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[ ]  |

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|             | Characteristics                                | Example Varieties                 | Note |
|-------------|--|-----------------------------------|------|
| 5.4<br>(38) | Fruit: color of juice                          |                                   |      |
|             | colorless                                      | Montmorency                       | 1[ ] |
|             | whitish yellow                                 | Pipacs 1                          | 2[ ] |
|             | pink   | Meteor, Pándy                     | 3[ ] |
|             | medium red                                     | Kántorjánosi 3, Karneol           | 4[ ] |
|             | dark red Cigánymeggy 7, Érdi jubileum<br>Fanal |                                   | 5[ ] |
| 5.5<br>(46) | Time of beginning of flowering                 |                                   |      |
|             | very early                                     | Érdi bőtermő                      | 1[ ] |
|             | early  | Favorit, Meteor korai             | 3[ ] |
|             | medium   | Cigánymeggy 7, Vowi               | 5[ ] |
|             | late   | Gerema, Morellenfeuer             | 7[ ] |
|             | very late                                      | Schattenmorelle                   | 9[ ] |
| 5.6<br>(47) | Time of beginning of fruit ripening            |                                   |      |
|             | very early                                     |                                   | 1[ ] |
|             | early  | Impératrice Eugénie, Meteor korai | 3[ ] |
|             | medium   | Érdi bőtermő, Favorit             | 5[ ] |
|             | late   | Pándy 279, Kántorjánosi 3         | 7[ ] |
|             | very late                                      | Gerema, Nana, Vowi                | 9[ ] |

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| er:   |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| 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. |  |  |  |  |  |  |  |
| escribe the expression<br>f the characteristic(s)<br>for <b>your</b> candidate<br>variety   |  |  |  |  |  |  |  |
| medium  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |
| ati<br>yo<br>ori:<br>eso<br>f tl  |  |  |  |  |  |  |  |

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|-------------------------|---|--|-----------------------|-----------------------------------|--|--|--|--|--|--|--|
|                         |   |  |                       |                                   |  |  |  |  |  |  |  |
| <sup>#</sup> 7.         | Addi  | tional information which ma  | ay help in the examin | ation 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   | Yes [ ] No [ ]        |                                   |  |  |  |  |  |  |  |
|                         |   | (If yes, please provide deta   | ils)                  |                                   |  |  |  |  |  |  |  |
|                         | 7.2 Are there any special conditions for growing the variety or conducting the examination?   |  |                       |                                   |  |  |  |  |  |  |  |
|                         |   | Yes [ ] No   | [ ]                   |                                   |  |  |  |  |  |  |  |
|                         |   | (If yes, please provide deta   | iils)                 |                                   |  |  |  |  |  |  |  |
|                         | 7.3   | Other information  |                       |                                   |  |  |  |  |  |  |  |
|                         | Que   | A representative color phostionnaire.  | otograph of the varie | ty should accompany the Technical |  |  |  |  |  |  |  |
| 8.                      | A 2241k   | norization for release   |                       |                                   |  |  |  |  |  |  |  |
| 8.                      | Auu   | iorization 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 bee   | en obtained?          |                                   |  |  |  |  |  |  |  |
|                         |   | Yes [ ]  | No [ ]                |                                   |  |  |  |  |  |  |  |
|                         | If the  | e answer to (b) is yes, please   | attach a copy of the  | authorization.                    |  |  |  |  |  |  |  |

Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

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| TECI         | TECHNICAL QUESTIONNAIRE   Page (x) of {y}   Reference Number:   |  |         |                     |          |       |         |        |  |
|--------------|---|--|---------|---------------------|----------|-------|---------|--------|--|
| 9.           | Infor   | mation on plant mater                              | rial to | be examined.        |          |       |         |        |  |
|              | 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,  |  |         |                     |          |       |         |        |  |
| such<br>must | 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) |         |                     |          | ı)    | Yes [ ] | No [ ] |  |
|              | (b)   | Chemical treatment                                 | (e.g. g | growth retardant of | or pesti | cide) | Yes [ ] | No [ ] |  |
|              | (c)   | Tissue culture                                     |         |                     |          |       | Yes [ ] | No [ ] |  |
|              | (d)   | Other factors                                      |         |                     |          |       | Yes [ ] | No [ ] |  |
|              | Pleas   | e provide details of w                             | here    | you have indicate   | ed "yes  | ".    |         |        |  |
|              |   |  |         |                     |          |       |         |        |  |
| 10.          | 10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:   |  |         |                     |          |       |         |        |  |
|              | Appli   | cant's name  |         |                     |          |       |         |        |  |
|              | Signa   | ture   |         |                     |          | Date  |         |        |  |

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