



These Test Guidelines have been superseded by a later version. The latest adopted version of Test Guidelines can be found at [http://www.upov.int/test\\_guidelines/en/list.jsp](http://www.upov.int/test_guidelines/en/list.jsp)

---

Ces principes directeurs d'examen ont été remplacés par une version ultérieure. La version adoptée la plus récente des principes directeurs d'examen figure à l'adresse suivante : [http://www.upov.int/test\\_guidelines/fr/list.jsp](http://www.upov.int/test_guidelines/fr/list.jsp)

---

Diese Prüfungsrichtlinien wurden durch eine neuere Fassung ersetzt. Die neueste angenommene Fassung von Prüfungsrichtlinien ist unter [http://www.upov.int/test\\_guidelines/de/list.jsp](http://www.upov.int/test_guidelines/de/list.jsp) zu finden.

---

Las presentes directrices de examen han sido reemplazadas por una versión posterior. La versión de las directrices de examen de más reciente aprobación está disponible en [http://www.upov.int/test\\_guidelines/es/list.jsp](http://www.upov.int/test_guidelines/es/list.jsp).



TG/137/5

ORIGINAL: English

DATE: 2019-06-14

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

**BLUEBERRY**

UPOV Code(s): VACCI\_AMC;  
 VACCI\_ANG; VACCI\_CAN; VACCI\_CAV;  
 VACCI\_COR; VACCI\_FOR; VACCI\_MYD;  
 VACCI\_MYR; VACCI\_SIM; VACCI\_VIR

*Vaccinium angustifolium* x *Vaccinium*  
*myrsinites* x *Vaccinium corymbosum*;  
*Vaccinium angustifolium* Aiton;  
 Hybrids between *Vaccinium corymbosum*  
 and *Vaccinium angustifolium*;  
*Vaccinium corymbosum* x *Vaccinium*  
*angustifolium* x *Vaccinium virgatum*;  
*Vaccinium corymbosum* L.;  
*Vaccinium formosum* Andrews;  
*Vaccinium myrtilloides* Michx.;  
*Vaccinium myrtillus* L.;  
*Vaccinium simulatum* Small;  
*Vaccinium virgatum* Aiton

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

\* 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](http://www.upov.int)), for the latest information.]

Alternative names:\*

| Botanical name                                                                                                                                                                                                                                                                                                                                                                                                  | English                                                         | French                                                                          | German                                             | Spanish            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------|--------------------|
| <i>Vaccinium angustifolium</i><br>x <i>Vaccinium myrsinites</i> x<br><i>Vaccinium corymbosum</i>                                                                                                                                                                                                                                                                                                                |                                                                 |                                                                                 |                                                    |                    |
| <i>Vaccinium angustifolium</i> Aiton,<br><i>V. angustifolium</i> var.<br><i>hypolasium</i> Fernald,<br><i>V. angustifolium</i> var.<br><i>laevifolium</i> House,<br><i>V. angustifolium</i> var.<br><i>nigrum</i> (Alph. Wood)<br>Dole, <i>V. brittonii</i> Porter ex<br>E. P. Bicknell, <i>V. lamarckii</i><br>Camp, <i>V. pensylvanicum</i><br>Lam., <i>V. pensylvanicum</i><br>var. <i>nigrum</i> Alph. Wood | Lowbush Blueberry,<br>Upland lowbush blueberry                  |                                                                                 |                                                    |                    |
| Hybrids between<br><i>Vaccinium corymbosum</i><br>and <i>Vaccinium angustifolium</i> ,<br><i>V. angustifolium</i> x<br><i>V. corymbosum</i> ,<br><i>V. corymbosum</i> x<br><i>V. angustifolium</i>                                                                                                                                                                                                              |                                                                 |                                                                                 |                                                    |                    |
| <i>Vaccinium corymbosum</i> x<br><i>Vaccinium angustifolium</i> x<br><i>Vaccinium virgatum</i>                                                                                                                                                                                                                                                                                                                  |                                                                 |                                                                                 |                                                    |                    |
| <i>Vaccinium corymbosum</i><br>L., <i>V. atlanticum</i> E. P.<br>Bicknell,<br><i>V. constablaei</i> A. Gray                                                                                                                                                                                                                                                                                                     | Blueberry,<br>High Bush Blueberry                               | Myrtille,<br>Myrtille en Corymbe,<br>Myrtille américaine,<br>Myrtille arbustive | Amerikanische<br>Heidelbeere,<br>Kulturheidelbeere | Arándano americano |
| <i>Vaccinium formosum</i><br>Andrews,<br><i>V. australe</i> Small                                                                                                                                                                                                                                                                                                                                               | Swamp Highbush<br>Blueberry                                     |                                                                                 |                                                    |                    |
| <i>Vaccinium myrtilloides</i><br>Michx., <i>V. canadense</i><br>Kalm ex Richardson                                                                                                                                                                                                                                                                                                                              | Canada blueberry,<br>Sourtop blueberry,<br>Velvetleaf blueberry |                                                                                 | Kanadische Heidelbeere                             |                    |
| <i>Vaccinium myrtillus</i> L.,<br><i>V. yatabei</i> Makino                                                                                                                                                                                                                                                                                                                                                      | Bilberry, Blueberry,<br>Whinberry, Whortleberry                 | Myrtille                                                                        | Blaubeere, Heidelbeere                             | Arándano, Mirtillo |
| <i>Vaccinium simulatum</i><br>Small                                                                                                                                                                                                                                                                                                                                                                             |                                                                 |                                                                                 |                                                    |                    |
| <i>Vaccinium virgatum</i> Aiton,<br><i>V. amoenum</i> Aiton,<br><i>V. ashei</i> J. M. Reade                                                                                                                                                                                                                                                                                                                     | Rabbit-eye blueberry,<br>Southern black blueberry               |                                                                                 |                                                    |                    |

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.

| TABLE OF CONTENTS                                                                              | PAGE               |
|------------------------------------------------------------------------------------------------|--------------------|
| 1. SUBJECT OF THESE TEST GUIDELINES.....                                                       | <a href="#">4</a>  |
| 2. MATERIAL REQUIRED.....                                                                      | <a href="#">4</a>  |
| 3. METHOD OF EXAMINATION.....                                                                  | <a href="#">4</a>  |
| 3.1 Number of Growing Cycles.....                                                              | <a href="#">4</a>  |
| 3.2 Testing Place.....                                                                         | <a href="#">4</a>  |
| 3.3 Conditions for Conducting the Examination.....                                             | <a href="#">4</a>  |
| 3.4 Test Design.....                                                                           | <a href="#">4</a>  |
| 3.5 Additional Tests.....                                                                      | <a href="#">5</a>  |
| 4. ASSESSMENT OF DISTINCTNESS, UNIFORMITY AND STABILITY.....                                   | <a href="#">5</a>  |
| 4.1 Distinctness.....                                                                          | <a href="#">5</a>  |
| 4.2 Uniformity.....                                                                            | <a href="#">6</a>  |
| 4.3 Stability.....                                                                             | <a href="#">6</a>  |
| 5. GROUPING OF VARIETIES AND ORGANIZATION OF THE GROWING TRIAL.....                            | <a href="#">6</a>  |
| 6. INTRODUCTION TO THE TABLE OF CHARACTERISTICS.....                                           | <a href="#">7</a>  |
| 6.1 Categories of Characteristics.....                                                         | <a href="#">7</a>  |
| 6.2 States of Expression and Corresponding Notes.....                                          | <a href="#">7</a>  |
| 6.3 Types of Expression.....                                                                   | <a href="#">7</a>  |
| 6.4 Example Varieties.....                                                                     | <a href="#">8</a>  |
| 6.5 Legend.....                                                                                | <a href="#">8</a>  |
| 7. TABLE OF CHARACTERISTICS/TABLEAU DES CARACTÈRES/MERKMALSTABELLE/TABLA DE<br>CARACTERES..... | <a href="#">9</a>  |
| 8. EXPLANATIONS ON THE TABLE OF CHARACTERISTICS.....                                           | <a href="#">17</a> |
| 8.1 Explanations covering several characteristics.....                                         | <a href="#">17</a> |
| 8.2 Explanations for individual characteristics.....                                           | <a href="#">17</a> |
| 9. LITERATURE.....                                                                             | <a href="#">22</a> |
| 10. TECHNICAL QUESTIONNAIRE.....                                                               | <a href="#">23</a> |

1. Subject of these Test Guidelines

- 1.1 These Test Guidelines apply to all varieties of *Vaccinium angustifolium* x *Vaccinium myrsinites* x *Vaccinium corymbosum*, *Vaccinium angustifolium* Aiton, Hybrids between *Vaccinium corymbosum* and *Vaccinium angustifolium*, *Vaccinium corymbosum* x *Vaccinium angustifolium* x *Vaccinium virgatum*, *Vaccinium corymbosum* L., *Vaccinium formosum* Andrews, *Vaccinium myrtilloides* Michx., *Vaccinium myrtillus* L., *Vaccinium simulatum* Smal and *Vaccinium virgatum* Aiton.
- 1.2 Guidance on the use of Test Guidelines for interspecific hybrids that are not explicitly covered by Test Guidelines is provided in document TGP/13 “Guidance for New Types and Species”.
- 1.3 In the case of ornamental varieties, in particular, it may be necessary to use additional characteristics or additional states of expression to those included in the Table of Characteristics in order to examine Distinctness, Uniformity and Stability.

2. Material Required

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

3. Method of Examination

3.1 *Number of Growing Cycles*

- 3.1.1 The minimum duration of tests should normally be two independent growing cycles.
- 3.1.2 The two independent growing cycles may be observed from a single planting, examined in two separate growing cycles.
- 3.1.3 The growing cycle is considered to be the duration of a single growing season, beginning with bud burst (flowering and/or vegetative), flowering and fruit harvest and concluding when the following dormant period ends with the swelling of new season buds.

3.2 *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.

3.4 *Test Design*

- 3.4.1 Each test should be designed to result in a total of at least 5 plants.
- 3.4.2 The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.

### 3.5 *Additional Tests*

Additional tests, for examining relevant characteristics, may be established.

## 4. Assessment of Distinctness, Uniformity and Stability

### 4.1 *Distinctness*

#### 4.1.1 General Recommendations

It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in these Test Guidelines.

#### 4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

#### 4.1.3 Clear Differences

Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo-qualitative manner. Therefore, it is important that users of these Test Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness.

#### 4.1.4 Number of Plants or Parts of Plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 5 plants or parts of plants taken from each of 5 plants and any other observations made on all plants in the test, disregarding any off-type plants.

In the case of observations of parts taken from single plants, the number of parts to be taken from each of the plants should be 3.

#### 4.1.5 Method of Observation

The recommended method of observing the characteristic for the purposes of distinctness is indicated by the following key in the Table of Characteristics (see document TGP/9 "Examining Distinctness", Section 4 "Observation of characteristics"):

MG: single measurement of a group of plants or parts of plants

MS: measurement of a number of individual plants or parts of plants

VG: visual assessment by a single observation of a group of plants or parts of plants

VS: visual assessment by observation of individual plants or parts of plants

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

"Visual" observation (V) is an observation made on the basis of the expert's judgment. For the purposes of this document, "visual" observation refers to the sensory observations of the experts and, therefore, also includes smell, taste and touch. Visual observation includes observations where the expert uses reference points (e.g. diagrams, example varieties, side-by-side comparison) or non-linear charts (e.g. color charts). Measurement (M) is an objective observation against a calibrated, linear scale e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc.

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

For the purposes of distinctness, observations may be recorded as a single record for a group of plants or parts of plants (G), or may be recorded as records for a number of single, individual plants or parts of plants (S). In most cases, "G" provides a single record per variety and it is not possible or necessary to apply statistical methods in a plant-by-plant analysis for the assessment of distinctness.

In cases where more than one method of observing the characteristic is indicated in the Table of Characteristics (e.g. VG/MG), guidance on selecting an appropriate method is provided in document TGP/9, Section 4.2.

## 4.2 *Uniformity*

4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:

4.2.2 These Test Guidelines have been developed for the examination of vegetatively propagated varieties. For varieties with other types of propagation, the recommendations in the General Introduction and document TGP/13 "Guidance for new types and species" Section 4.5 "Testing Uniformity" should be followed.

4.2.3 For the assessment of uniformity of vegetatively propagated varieties, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 5 plants, no off-types are allowed.

## 4.3 *Stability*

4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.

4.3.2 Where appropriate, or in cases of doubt, stability may be further examined by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.

## 5. Grouping of Varieties and Organization of the Growing Trial

5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.

5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.

5.3 The following have been agreed as useful grouping characteristics:

- (a) Plant: vigor (characteristic 1)
- (b) Plant: growth habit (characteristic 2)
- (c) One-year-old shoot: color (characteristic 3)
- (d) Inflorescence: density (characteristic 20)
- (e) Plant: fruiting type (characteristic 32)
- (f) Time of beginning of flowering on one-year-old shoot (characteristic 34)
- (g) Time of beginning of flowering on current season's shoot (characteristic 35)
- (h) Time of beginning of fruit ripening on one-year-old shoot (characteristic 36)
- (i) Time of beginning of fruit ripening on current season's shoot (characteristic 37)

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 "Examining Distinctness".

## 6. Introduction to the Table of Characteristics

### 6.1 *Categories of Characteristics*

#### 6.1.1 Standard Test Guidelines Characteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.

#### 6.1.2 Asterisked Characteristics

Asterisked characteristics (denoted by \*) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate.

### 6.2 *States of Expression and Corresponding Notes*

6.2.1 States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.

6.2.2 In the case of qualitative and pseudo-qualitative characteristics (see Chapter 6.3), all relevant states of expression are presented in the characteristic. However, in the case of quantitative characteristics with 5 or more states, an abbreviated scale may be used to minimize the size of the Table of Characteristics. For example, in the case of a quantitative characteristic with 9 states, the presentation of states of expression in the Test Guidelines may be abbreviated as follows:

| State  | Note |
|--------|------|
| small  | 3    |
| medium | 5    |
| large  | 7    |

However, it should be noted that all of the following 9 states of expression exist to describe varieties and should be used as appropriate:

| State               | Note |
|---------------------|------|
| 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    |

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.

Blueberry varieties require different numbers of chilling hours to ensure a sufficient amount of flowering and fruit set. Chilling hours are the number of hours below 45 °F (7 °C).

(H) - example variety with high chilling requirements (greater than 750 hours)

(L) - example variety with low chilling requirements (less than 600 hours)

## 6.5 Legend

| English |   |                                           |   | français                            |   | deutsch                              | español | Example Varieties<br>Exemples<br>Beispielssorten<br>Variedades ejemplo | Note/<br>Nota |
|---------|---|-------------------------------------------|---|-------------------------------------|---|--------------------------------------|---------|------------------------------------------------------------------------|---------------|
| 1       | 2 | 3                                         | 4 | 5                                   | 6 | 7                                    |         |                                                                        |               |
|         |   | <b>Name of characteristics in English</b> |   | <b>Nom du caractère en français</b> |   | <b>Name des Merkmals auf Deutsch</b> |         | <b>Nombre del carácter en español</b>                                  |               |
|         |   | states of expression                      |   | types d'expression                  |   | Ausprägungsstufen                    |         | tipos de expresión                                                     |               |

1 Characteristic number

2 (\*) Asterisked characteristic – see Chapter 6.1.2

3 Type of expression

|    |                                   |                   |
|----|-----------------------------------|-------------------|
| QL | Qualitative characteristic        | – see Chapter 6.3 |
| QN | Quantitative characteristic       | – see Chapter 6.3 |
| PQ | Pseudo-qualitative characteristic | – see Chapter 6.3 |

4 Method of observation (and type of plot, if applicable)  
MG, MS, VG, VS – see Chapter 4.1.5

5 (+) See Explanations on the Table of Characteristics in Chapter 8.2

6 (a)-(d) See Explanations on the Table of Characteristics in Chapter 8.1

7 Not applicable

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

|        | English                                        |       | français                                         |     | deutsch                                    | español                                       | Example Varieties<br>Exemples<br>Beispielssorten<br>Variedades ejemplo | Note/<br>Nota |
|--------|------------------------------------------------|-------|--------------------------------------------------|-----|--------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|---------------|
| 1. (*) | QN                                             | VG    | (+)                                              | (a) |                                            |                                               |                                                                        |               |
|        | <b>Plant: vigor</b>                            |       | <b>Plante : vigueur</b>                          |     | <b>Pflanze: Wuchsstärke</b>                | <b>Planta: vigor</b>                          |                                                                        |               |
|        | very weak                                      |       | très faible                                      |     | sehr schwach                               | muy débil                                     |                                                                        | 1             |
|        | weak                                           |       | faible                                           |     | schwach                                    | débil                                         | Dolce Blue (L)                                                         | 2             |
|        | medium                                         |       | moyenne                                          |     | mittel                                     | medio                                         | DriscollBlueSeven (L)                                                  | 3             |
|        | strong                                         |       | forte                                            |     | stark                                      | fuerte                                        | Bluecrop (H)                                                           | 4             |
|        | very strong                                    |       | très forte                                       |     | sehr stark                                 | muy fuerte                                    | Vernon (L)                                                             | 5             |
| 2. (*) | QN                                             | VG    |                                                  | (a) |                                            |                                               |                                                                        |               |
|        | <b>Plant: growth habit</b>                     |       | <b>Plante : port</b>                             |     | <b>Pflanze: Wuchsform</b>                  | <b>Planta: hábito de crecimiento</b>          |                                                                        |               |
|        | upright                                        |       | dressé                                           |     | aufrecht                                   | erecta                                        | Cargo (H), Ivanhoe (H), Spartan (H)                                    | 1             |
|        | semi-upright                                   |       | demi-dressé                                      |     | halbaufrecht                               | semierecta                                    | Bluetta (H), Draper (H)                                                | 2             |
|        | spreading                                      |       | étalé                                            |     | breitwüchsig                               | extendida                                     | Blue Ribbon (H), Jersey (H)                                            | 3             |
| 3. (*) | PQ                                             | VG    |                                                  | (a) |                                            |                                               |                                                                        |               |
|        | <b>One-year-old shoot: color</b>               |       | <b>Rameau d'un an : couleur</b>                  |     | <b>Einjähriger Trieb: Farbe</b>            | <b>Rama de un año: color</b>                  |                                                                        |               |
|        | green                                          |       | vert                                             |     | grün                                       | verde                                         | Puru (H)                                                               | 1             |
|        | reddish yellow                                 |       | jaune rougeâtre                                  |     | rötlichgelb                                | amarillo rojizo                               | Heerma (H)                                                             | 2             |
|        | greenish red                                   |       | rouge verdâtre                                   |     | grünlichrot                                | rojo verdoso                                  | Reka (H)                                                               | 3             |
|        | greyish red                                    |       | rouge grisâtre                                   |     | gräulichrot                                | rojo grisáceo                                 | Berkeley (H)                                                           | 4             |
|        | dark red                                       |       | rouge foncé                                      |     | dunkelrot                                  | rojo oscuro                                   | Aron (H)                                                               | 5             |
|        | reddish brown                                  |       | brun rougeâtre                                   |     | rötlichbraun                               | marrón rojizo                                 | Earlblue (H)                                                           | 6             |
| 4.     | QN                                             | VG    | (+)                                              | (a) |                                            |                                               |                                                                        |               |
|        | <b>One-year-old shoot: length of internode</b> |       | <b>Rameau d'un an : longueur de l'entre-nœud</b> |     | <b>Einjähriger Trieb: Internodienlänge</b> | <b>Rama de un año: longitud del entrenudo</b> |                                                                        |               |
|        | short                                          |       | court                                            |     | kurz                                       | corto                                         | DriscollBlueTen (H)                                                    | 1             |
|        | medium                                         |       | moyen                                            |     | mittel                                     | medio                                         | DriscollBlueFifteen (H)                                                | 3             |
|        | long                                           |       | long                                             |     | lang                                       | largo                                         | DriscollBlueSeven (L)                                                  | 5             |
| 5. (*) | QN                                             | MG/VG |                                                  | (b) |                                            |                                               |                                                                        |               |
|        | <b>Leaf: length</b>                            |       | <b>Feuille : longueur</b>                        |     | <b>Blatt: Länge</b>                        | <b>Hoja: longitud</b>                         |                                                                        |               |
|        | short                                          |       | courte                                           |     | kurz                                       | corta                                         | Darrow (H)                                                             | 3             |
|        | medium                                         |       | moyenne                                          |     | mittel                                     | media                                         | Bluecrop (H), Patriot (H)                                              | 5             |
|        | long                                           |       | longue                                           |     | lang                                       | larga                                         | Berkeley (H), Collins (H), Toro (H)                                    | 7             |

|         | English                           |       | français                                        |     | deutsch                           | español                            | Example Varieties<br>Exemples<br>Beispielssorten<br>Variedades ejemplo | Note/<br>Nota |
|---------|-----------------------------------|-------|-------------------------------------------------|-----|-----------------------------------|------------------------------------|------------------------------------------------------------------------|---------------|
| 6.      | QN                                | MG/VG | (b)                                             |     |                                   |                                    |                                                                        |               |
|         | Leaf: width                       |       | Feuille : largeur                               |     | Blatt: Breite                     | Hoja: anchura                      |                                                                        |               |
|         | narrow                            |       | étroite                                         |     | schmal                            | estrecha                           | Emil (H), Heerma (H),<br>Putte (H)                                     | 3             |
|         | medium                            |       | moyenne                                         |     | mittel                            | media                              | Ama (H), Bluecrop (H)                                                  | 5             |
|         | broad                             |       | large                                           |     | breit                             | ancha                              | Berkeley (H), Collins (H)                                              | 7             |
| 7. (*)  | QN                                | MG/VG | (+)                                             | (b) |                                   |                                    |                                                                        |               |
|         | Leaf: ratio<br>length/width       |       | Feuille : rapport<br>longueur/largeur           |     | Blatt: Verhältnis<br>Länge/Breite | Hoja: relación<br>longitud/anchura |                                                                        |               |
|         | low                               |       | bas                                             |     | klein                             | baja                               | Gretha (H)                                                             | 3             |
|         | medium                            |       | moyen                                           |     | mittel                            | media                              | Patriot (H)                                                            | 5             |
|         | high                              |       | élevé                                           |     | groß                              | alta                               | Heerma (H)                                                             | 7             |
| 8. (*)  | PQ                                | VG    | (+)                                             | (b) |                                   |                                    |                                                                        |               |
|         | Leaf: shape                       |       | Feuille : forme                                 |     | Blatt: Form                       | Hoja: forma                        |                                                                        |               |
|         | lanceolate                        |       | lancéolée                                       |     | lanzettlich                       | lanceolada                         | Weymouth (H)                                                           | 1             |
|         | ovate                             |       | ovale                                           |     | eiförmig                          | oval                               | Puru (H)                                                               | 2             |
|         | elliptic                          |       | elliptique                                      |     | elliptisch                        | elíptica                           | Earliblue (H)                                                          | 3             |
|         | oblong                            |       | oblongue                                        |     | rechteckig                        | oblonga                            | Berkeley (H), Bluetta (H),<br>Jersey (H)                               | 4             |
| 9. (*)  | PQ                                | VG    | (b)                                             |     |                                   |                                    |                                                                        |               |
|         | Leaf: color of upper<br>side      |       | Feuille : couleur de la<br>face supérieure      |     | Blatt: Farbe der<br>Oberseite     | Hoja: color del haz                |                                                                        |               |
|         | yellow                            |       | jaune                                           |     | gelb                              | amarillo                           | Geerdens (H)                                                           | 1             |
|         | light green                       |       | vert clair                                      |     | hellgrün                          | verde claro                        | Earliblue (H)                                                          | 2             |
|         | medium green                      |       | vert moyen                                      |     | mittelgrün                        | verde medio                        | Berkeley (H), Toro (H)                                                 | 3             |
|         | dark green                        |       | vert foncé                                      |     | dunkelgrün                        | verde oscuro                       | Darrow (H),<br>Weymouth (H)                                            | 4             |
| 10. (*) | QL                                | VG    | (b)                                             |     |                                   |                                    |                                                                        |               |
|         | Leaf: margin                      |       | Feuille : bord                                  |     | Blatt: Rand                       | Hoja: margen                       |                                                                        |               |
|         | entire                            |       | entier                                          |     | ganzrandig                        | entero                             | Blueray (H), Jersey (H)                                                | 1             |
|         | serrate                           |       | dentelé                                         |     | gesägt                            | serrado                            | Brigitta (H), Rancocas (H)                                             | 2             |
| 11.     | QN                                | VG    | (b)                                             |     |                                   |                                    |                                                                        |               |
|         | Leaf: glaucosity on<br>upper side |       | Feuille : glaucescence<br>de la face supérieure |     | Blatt: Bereifung der<br>Oberseite | Hoja: glaucescencia del<br>haz     |                                                                        |               |
|         | absent or weak                    |       | absente ou faible                               |     | fehlend oder gering               | ausente o leve                     | Puru (H), Reka (H)                                                     | 1             |
|         | medium                            |       | moyenne                                         |     | mittel                            | media                              | Dolce Blue (L),<br>Magnolia (L)                                        | 2             |
|         | strong                            |       | forte                                           |     | stark                             | intensa                            | Maru (L), Takahe (L)                                                   | 3             |

|     | English                                  |                                             | français                          |                                              | deutsch                                                           | español | Example Varieties<br>Exemples<br>Beispielssorten<br>Variedades ejemplo | Note/<br>Nota |
|-----|------------------------------------------|---------------------------------------------|-----------------------------------|----------------------------------------------|-------------------------------------------------------------------|---------|------------------------------------------------------------------------|---------------|
| 12. | QN                                       | VG                                          |                                   | (c)                                          |                                                                   |         |                                                                        |               |
|     | Flower bud:<br>anthocyanin<br>coloration | Bourgeon :<br>pigmentation<br>anthocyanique | Blütenknospe:<br>Anthocyanfärbung | Botón floral:<br>pigmentación<br>antociánica |                                                                   |         |                                                                        |               |
|     | absent or very weak                      | absente ou très faible                      | fehlend oder sehr gering          | ausente o muy leve                           | Cipria (L),<br>Hortblue Poppins (H),<br>Palmetto (L)              | 1       |                                                                        |               |
|     | weak                                     | faible                                      | gering                            | leve                                         | Hele (H)                                                          | 2       |                                                                        |               |
|     | medium                                   | moyenne                                     | mittel                            | media                                        | Patriot (H)                                                       | 3       |                                                                        |               |
|     | strong                                   | forte                                       | stark                             | intensa                                      | Bluecrop (H)                                                      | 4       |                                                                        |               |
|     | very strong                              | très forte                                  | sehr stark                        | muy intensa                                  | Brigitta (H), Collins (H)                                         | 5       |                                                                        |               |
| 13. | QN                                       | MS/VG                                       | (+)                               | (c)                                          |                                                                   |         |                                                                        |               |
|     | Inflorescence: length                    | Inflorescence :<br>longueur                 | Blütenstand: Länge                | Inflorescencia:<br>longitud                  |                                                                   |         |                                                                        |               |
|     | short                                    | courte                                      | kurz                              | corta                                        | Bluetta (H), Collins (H)                                          | 1       |                                                                        |               |
|     | medium                                   | moyenne                                     | mittel                            | media                                        | Duke (H), Earliblue (H)                                           | 2       |                                                                        |               |
|     | long                                     | longue                                      | lang                              | larga                                        | Berkeley (H),<br>Bluecrop (H)                                     | 3       |                                                                        |               |
| 14. | PQ                                       | VG                                          | (+)                               | (c)                                          |                                                                   |         |                                                                        |               |
|     | Flower: shape of<br>corolla              | Fleur : forme de la<br>corolle              | Blüte: Form der Krone             | Flor: forma de la<br>corola                  |                                                                   |         |                                                                        |               |
|     | globose                                  | globuleuse                                  | kugelförmig                       | globosa                                      | EB 12-19 (L), Farthing (L)                                        | 1       |                                                                        |               |
|     | ellipsoid                                | ellipsoïde                                  | ellipsoid                         | elipsoidal                                   | Ridley (L)                                                        | 2       |                                                                        |               |
|     | cylindric                                | cylindrique                                 | zylindrisch                       | cilíndrica                                   | Reka (H)                                                          | 3       |                                                                        |               |
|     | ovoid                                    | ovoïde                                      | eiförmig                          | ovoidal                                      |                                                                   | 4       |                                                                        |               |
|     | urceolate                                | urcéolée                                    | urnenförmig                       | urceolada                                    | Maru (L)                                                          | 5       |                                                                        |               |
|     | campanulate                              | campanulée                                  | glockenförmig                     | acampanada                                   | Magnolia (L), Scintilla (L),<br>Velluto Blue (H),<br>Victoria (L) | 6       |                                                                        |               |
| 15. | QN                                       | VG                                          |                                   | (c)                                          |                                                                   |         |                                                                        |               |
|     | Flower: size of corolla<br>tube          | Fleur : taille du tube<br>de la corolle     | Blüte: Größe der<br>Kronenröhre   | Flor: tamaño del tubo<br>de la corola        |                                                                   |         |                                                                        |               |
|     | small                                    | petit                                       | klein                             | pequeño                                      | Blueray (H)                                                       | 1       |                                                                        |               |
|     | medium                                   | moyen                                       | mittel                            | medio                                        | Heerma (H)                                                        | 3       |                                                                        |               |
|     | large                                    | grand                                       | groß                              | grande                                       | Collins (H)                                                       | 5       |                                                                        |               |

|         | English                                                             |    | français                                                                            | deutsch                                                       | español                                                                        | Example Varieties<br>Exemples<br>Beispielssorten<br>Variedades ejemplo | Note/<br>Nota |
|---------|---------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------|
| 16.     | PQ                                                                  | VG | (c)                                                                                 |                                                               |                                                                                |                                                                        |               |
|         | <b>Flower: color of corolla tube</b>                                |    | <b>Fleur : couleur du tube de la corolle</b>                                        | <b>Blüte: Farbe der Kronenröhre</b>                           | <b>Flor: color del tubo de la corola</b>                                       |                                                                        |               |
|         | white                                                               |    | blanc                                                                               | weiß                                                          | blanco                                                                         | Bluetta (H),<br>Ridley 1607 (L)                                        | 1             |
|         | whitish green                                                       |    | vert blanchâtre                                                                     | weißlichgrün                                                  | verde blanquecino                                                              | Blueray (H),<br>Ridley 1403 (L)                                        | 2             |
|         | whitish yellow                                                      |    | jaune blanchâtre                                                                    | weißlichgelb                                                  | amarillo blanquecino                                                           | Berkeley (H)                                                           | 3             |
|         | whitish red                                                         |    | rouge blanchâtre                                                                    | weißlichrot                                                   | rojo blanquecino                                                               | FL 96-43 (L), Tifblue (L)                                              | 4             |
| 17.     | QN                                                                  | VG | (c)                                                                                 |                                                               |                                                                                |                                                                        |               |
|         | <b>Flower: anthocyanin coloration of corolla tube on outer side</b> |    | <b>Fleur : pigmentation anthocyanique du tube de la corolle sur la face externe</b> | <b>Blüte: Anthocyanfärbung der Kronenröhre der Außenseite</b> | <b>Flor: pigmentación antocianica del tubo de la corola en la cara externa</b> |                                                                        |               |
|         | absent or very weak                                                 |    | absente ou très faible                                                              | fehlend oder sehr gering                                      | ausente o muy leve                                                             | Camellia (L)                                                           | 1             |
|         | weak                                                                |    | faible                                                                              | gering                                                        | leve                                                                           | Ama (H)                                                                | 2             |
|         | medium                                                              |    | moyenne                                                                             | mittel                                                        | media                                                                          | Gretha (H)                                                             | 3             |
|         | strong                                                              |    | forte                                                                               | stark                                                         | intensa                                                                        | Bluecrop (H),<br>Sunshine Blue (L)                                     | 4             |
|         | very strong                                                         |    | très forte                                                                          | sehr stark                                                    | muy intense                                                                    |                                                                        | 5             |
| 18.     | QN                                                                  | VG | (+) (c)                                                                             |                                                               |                                                                                |                                                                        |               |
|         | <b>Flower: conspicuousness of ridges on corolla tube</b>            |    | <b>Fleur : netteté des cannelures sur le tube de la corolle</b>                     | <b>Blüte: Ausprägung der Rippen an der Kronenröhre</b>        | <b>Flor: visibilidad de las aristas del tubo de la corola</b>                  |                                                                        |               |
|         | absent or weak                                                      |    | absente ou faible                                                                   | fehlend oder schwach                                          | ausentes o poco visibles                                                       | Ventura (L)                                                            | 1             |
|         | medium                                                              |    | moyenne                                                                             | mittel                                                        | medianamente visibles                                                          | Atlantic (H), Camellia (L)                                             | 2             |
|         | strong                                                              |    | forte                                                                               | stark                                                         | muy visibles                                                                   | Bluejay (H), Corona (L),<br>FL 02-40 (L)                               | 3             |
| 19.     | PQ                                                                  | VG | (c)                                                                                 |                                                               |                                                                                |                                                                        |               |
|         | <b>Flower: color of receptacle</b>                                  |    | <b>Fleur : couleur du réceptacle</b>                                                | <b>Blüte: Farbe des Blütenbodens</b>                          | <b>Flor: color del receptáculo</b>                                             |                                                                        |               |
|         | green                                                               |    | vert                                                                                | grün                                                          | verde                                                                          |                                                                        | 1             |
|         | pink                                                                |    | rose                                                                                | rosa                                                          | rosa                                                                           |                                                                        | 2             |
|         | red                                                                 |    | rouge                                                                               | rot                                                           | rojo                                                                           |                                                                        | 3             |
|         | blue                                                                |    | bleu                                                                                | blau                                                          | azul                                                                           |                                                                        | 4             |
| 20. (*) | QN                                                                  | VG | (d)                                                                                 |                                                               |                                                                                |                                                                        |               |
|         | <b>Infructescence: density</b>                                      |    | <b>Infrutescence : densité</b>                                                      | <b>Fruchtstand: Dichte</b>                                    | <b>Infrutescencia: densidad</b>                                                |                                                                        |               |
|         | sparse                                                              |    | lâche                                                                               | locker                                                        | laxa                                                                           | Rahi (L)                                                               | 3             |
|         | medium                                                              |    | moyenne                                                                             | mittel                                                        | media                                                                          | Toro (H)                                                               | 5             |
|         | dense                                                               |    | dense                                                                               | dicht                                                         | densa                                                                          | Tifblue (L)                                                            | 7             |

|         | English                                       |    | français                                             | deutsch                                           | español                                            | Example Varieties<br>Exemples<br>Beispielssorten<br>Variedades ejemplo | Note/<br>Nota |
|---------|-----------------------------------------------|----|------------------------------------------------------|---------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------|---------------|
| 21.     | QN                                            | VG | (+)                                                  |                                                   |                                                    |                                                                        |               |
|         | <b>Unripe fruit: intensity of green color</b> |    | <b>Fruit non mûr : intensité de la couleur verte</b> | <b>Unreife Frucht: Intensität der Grünfärbung</b> | <b>Fruto no maduro: intensidad del color verde</b> |                                                                        |               |
|         | light                                         |    | claire                                               | hell                                              | claro                                              | Heerma (H)                                                             | 1             |
|         | medium                                        |    | moyenne                                              | mittel                                            | medio                                              | Ama (H)                                                                | 3             |
|         | dark                                          |    | foncée                                               | dunkel                                            | oscuro                                             | Berkeley (H)                                                           | 5             |
| 22. (*) | QN                                            | VG | (d)                                                  |                                                   |                                                    |                                                                        |               |
|         | <b>Fruit: size</b>                            |    | <b>Fruit : taille</b>                                | <b>Frucht: Größe</b>                              | <b>Fruto: tamaño</b>                               |                                                                        |               |
|         | very small                                    |    | très petit                                           | sehr klein                                        | muy pequeño                                        | Emil (H), Putte (H), ZF08-095 (L)                                      | 1             |
|         | small                                         |    | petit                                                | klein                                             | pequeño                                            | Ama (H)                                                                | 3             |
|         | medium                                        |    | moyen                                                | mittel                                            | medio                                              | Concord (H), Emerald (L)                                               | 5             |
|         | large                                         |    | grand                                                | groß                                              | grande                                             | Darrow (H), FL05-627 (L)                                               | 7             |
| 23. (*) | QN                                            | VG | (+)                                                  | (d)                                               |                                                    |                                                                        |               |
|         | <b>Fruit: shape in longitudinal section</b>   |    | <b>Fruit : forme en section longitudinale</b>        | <b>Frucht: Form im Längsschnitt</b>               | <b>Fruto: forma en sección longitudinal</b>        |                                                                        |               |
|         | elliptic                                      |    | elliptique                                           | elliptisch                                        | elíptico                                           | Northland (H)                                                          | 1             |
|         | circular                                      |    | circulaire                                           | kreisförmig                                       | circular                                           | Bluecrop (H), Jersey (H)                                               | 2             |
|         | oblate                                        |    | aplatis                                              | breitrund                                         | achatado                                           | Earlblue (H)                                                           | 3             |
| 24.     | QN                                            | VG | (d)                                                  |                                                   |                                                    |                                                                        |               |
|         | <b>Fruit: attitude of sepals</b>              |    | <b>Fruit : port des sépales</b>                      | <b>Frucht: Haltung der Kelchblätter</b>           | <b>Fruto: porte de los sépalos</b>                 |                                                                        |               |
|         | incurved                                      |    | incurvé                                              | aufgebogen                                        | incurvados                                         | Delite (L)                                                             | 1             |
|         | straight                                      |    | droit                                                | gerade                                            | rectos                                             | Powderblue (L)                                                         | 2             |
|         | reflexed                                      |    | récurvé                                              | zurückgebogen                                     | recurvados                                         | Tifblue (L)                                                            | 3             |
| 25.     | QN                                            | VG | (+)                                                  | (d)                                               |                                                    |                                                                        |               |
|         | <b>Fruit: diameter of calyx basin</b>         |    | <b>Fruit : diamètre de la cuvette du calice</b>      | <b>Frucht: Durchmesser der Kelchhöhle</b>         | <b>Fruto: diámetro de la cavidad calicinal</b>     |                                                                        |               |
|         | small                                         |    | petit                                                | klein                                             | pequeño                                            | Blueray (H)                                                            | 1             |
|         | medium                                        |    | moyen                                                | mittel                                            | medio                                              | Bluecrop (H)                                                           | 3             |
|         | large                                         |    | grand                                                | groß                                              | grande                                             | Darrow (H)                                                             | 5             |
| 26.     | QN                                            | VG | (+)                                                  | (d)                                               |                                                    |                                                                        |               |
|         | <b>Fruit: depth of calyx basin</b>            |    | <b>Fruit : profondeur de la cuvette du calice</b>    | <b>Frucht: Tiefe der Kelchhöhle</b>               | <b>Fruto: profundidad de la cavidad calicinal</b>  |                                                                        |               |
|         | absent or shallow                             |    | absente ou peu profonde                              | fehlend oder flach                                | ausente o poco profunda                            | Clockwork (H), Collins (H), Nelson (H), Olympia (H)                    | 1             |
|         | medium                                        |    | moyenne                                              | mittel                                            | medianamente profunda                              | Blueray (H)                                                            | 2             |
|         | deep                                          |    | profonde                                             | tief                                              | profunda                                           | Denis (H), Jersey (H)                                                  | 3             |

|         | English                   |                                | français                         |                                | deutsch                           | español | Example Varieties<br>Exemples<br>Beispielssorten<br>Variedades ejemplo | Note/<br>Nota |
|---------|---------------------------|--------------------------------|----------------------------------|--------------------------------|-----------------------------------|---------|------------------------------------------------------------------------|---------------|
| 27. (*) | QN                        | VG                             |                                  | (d)                            |                                   |         |                                                                        |               |
|         | Fruit: intensity of bloom | Fruit : intensité de la pruine | Frucht: Intensität der Bereifung | Fruto: intensidad de la pruina |                                   |         |                                                                        |               |
|         | absent or very weak       | absente ou très faible         | fehlend oder sehr gering         | ausente o muy leve             | Goldtraube (H), ZF08-095 (L)      |         | 1                                                                      |               |
|         | weak                      | faible                         | gering                           | leve                           | Gretha (H)                        |         | 3                                                                      |               |
|         | medium                    | moyenne                        | mittel                           | media                          | Ama (H), Bluetta (H)              |         | 5                                                                      |               |
|         | strong                    | forte                          | stark                            | intensa                        | Darrow (H)                        |         | 7                                                                      |               |
| 28. (*) | PQ                        | VG                             | (+)                              | (d)                            |                                   |         |                                                                        |               |
|         | Fruit: color of skin      | Fruit : couleur de l'épiderme  | Frucht: Farbe der Schale         | Fruto: color de la piel        |                                   |         |                                                                        |               |
|         | pink                      | rose                           | rosa                             | rosa                           | Pink Lemonade (L)                 |         | 1                                                                      |               |
|         | blue red                  | bleu rouge                     | blaurot                          | rojo azulado                   | Delite (L)                        |         | 2                                                                      |               |
|         | light blue                | bleu clair                     | hellblau                         | azul claro                     | Berkeley (H)                      |         | 3                                                                      |               |
|         | medium blue               | bleu moyen                     | mittelblau                       | azul medio                     | Patriot (H)                       |         | 4                                                                      |               |
|         | dark blue                 | bleu foncé                     | dunkelblau                       | azul oscuro                    | Heerma (H)                        |         | 5                                                                      |               |
|         | blackish blue             | bleu noirâtre                  | schwärzlichblau                  | azul negruzco                  | Emil (H), Freda (H), Putte (H)    |         | 6                                                                      |               |
| 29.     | QN                        | MG/VG                          | (+)                              | (d)                            |                                   |         |                                                                        |               |
|         | Fruit: firmness           | Fruit : fermeté                | Frucht: Festigkeit               | Fruto: firmeza                 |                                   |         |                                                                        |               |
|         | very soft                 | très mou                       | sehr weich                       | muy blando                     |                                   |         | 1                                                                      |               |
|         | soft                      | mou                            | weich                            | blando                         | Elliott (H), Hortblue Poppins (H) |         | 2                                                                      |               |
|         | medium                    | intermédiaire                  | mittel                           | medio                          | O'Neal (L)                        |         | 3                                                                      |               |
|         | firm                      | ferme                          | fest                             | firme                          | Duke (H)                          |         | 4                                                                      |               |
|         | very firm                 | très ferme                     | sehr fest                        | muy firme                      | Rahi (L)                          |         | 5                                                                      |               |
| 30.     | QN                        | VG                             | (+)                              | (d)                            |                                   |         |                                                                        |               |
|         | Fruit: sweetness          | Fruit : goût sucré             | Frucht: Süße                     | Fruto: dulzor                  |                                   |         |                                                                        |               |
|         | low                       | faible                         | gering                           | leve                           | Bluetta (H)                       |         | 1                                                                      |               |
|         | medium                    | moyen                          | mittel                           | medio                          | Collins (H)                       |         | 3                                                                      |               |
|         | high                      | fort                           | hoch                             | intenso                        | Goldtraube (H)                    |         | 5                                                                      |               |
| 31.     | QN                        | MG/VG                          | (+)                              | (d)                            |                                   |         |                                                                        |               |
|         | Fruit: acidity            | Fruit : acidité                | Frucht: Säure                    | Fruto: acidez                  |                                   |         |                                                                        |               |
|         | low                       | faible                         | gering                           | leve                           | Gretha (H)                        |         | 1                                                                      |               |
|         | medium                    | moyenne                        | mittel                           | media                          | Darrow (H)                        |         | 3                                                                      |               |
|         | high                      | élevée                         | hoch                             | intensa                        | Ascorba (H), Bluecrop (H)         |         | 5                                                                      |               |

|         | English                                                          |       | français                                                                   |  | deutsch                                                           |  | español                                                                   |  | Example Varieties<br>Exemples<br>Beispielssorten<br>Variedades ejemplo | Note/<br>Nota |
|---------|------------------------------------------------------------------|-------|----------------------------------------------------------------------------|--|-------------------------------------------------------------------|--|---------------------------------------------------------------------------|--|------------------------------------------------------------------------|---------------|
| 32. (*) | QL                                                               | VG    |                                                                            |  |                                                                   |  |                                                                           |  |                                                                        |               |
|         | <b>Plant: fruiting type</b>                                      |       | <b>Plante : type de fructification</b>                                     |  | <b>Pflanze: Fruchtungstyp</b>                                     |  | <b>Planta: tipo de fructificación</b>                                     |  |                                                                        |               |
|         | on one-year-old shoots only                                      |       | seulement sur des rameaux d'un an                                          |  | nur an einjährigen Trieben                                        |  | solo en ramas de un año                                                   |  | Darrow (H), Patriot (H)                                                | 1             |
|         | on one-year-old and current season shoots                        |       | sur des rameaux d'un an et des rameaux en croissance                       |  | an einjährigen Trieben und an Jahrestrieben                       |  | en ramas de un año y en ramas del año en curso                            |  | Burlington (H), Concord (H)                                            | 2             |
| 33. (*) | QN                                                               | MG/VG | (+)                                                                        |  |                                                                   |  |                                                                           |  |                                                                        |               |
|         | <b>Time of beginning of vegetative growth</b>                    |       | <b>Époque du début de la croissance végétative</b>                         |  | <b>Zeitpunkt des Beginns des vegetativen Wachstums</b>            |  | <b>Época de inicio del crecimiento vegetativo</b>                         |  |                                                                        |               |
|         | early                                                            |       | précoce                                                                    |  | früh                                                              |  | temprana                                                                  |  | Patriot (H), Weymouth (H)                                              | 3             |
|         | medium                                                           |       | moyenne                                                                    |  | mittel                                                            |  | media                                                                     |  | Bluecrop (H)                                                           | 5             |
|         | late                                                             |       | tardive                                                                    |  | spät                                                              |  | tardía                                                                    |  | Blueray (H)                                                            | 7             |
| 34. (*) | QN                                                               | MG/VG | (+)                                                                        |  |                                                                   |  |                                                                           |  |                                                                        |               |
|         | <b>Time of beginning of flowering on one-year-old shoot</b>      |       | <b>Époque du début de la floraison sur des rameaux d'un an</b>             |  | <b>Zeitpunkt des Blühbeginns am einjährigen Trieb</b>             |  | <b>Época de inicio de la floración en las ramas de un año</b>             |  |                                                                        |               |
|         | very early                                                       |       | très précoce                                                               |  | sehr früh                                                         |  | muy temprana                                                              |  | Patriot (H)                                                            | 1             |
|         | early                                                            |       | précoce                                                                    |  | früh                                                              |  | temprana                                                                  |  | Weymouth (H)                                                           | 3             |
|         | medium                                                           |       | moyenne                                                                    |  | mittel                                                            |  | media                                                                     |  | Berkeley (H)                                                           | 5             |
|         | late                                                             |       | tardive                                                                    |  | spät                                                              |  | tardía                                                                    |  | Darrow (H)                                                             | 7             |
|         | very late                                                        |       | très tardive                                                               |  | sehr spät                                                         |  | muy tardía                                                                |  | Jersey (H)                                                             | 9             |
| 35. (*) | QN                                                               | MG/VG | (+)                                                                        |  |                                                                   |  |                                                                           |  |                                                                        |               |
|         | <b>Time of beginning of flowering on current season's shoot</b>  |       | <b>Époque du début de la floraison sur les rameaux en croissance</b>       |  | <b>Zeitpunkt des Blühbeginns am Jahrestrieb</b>                   |  | <b>Época de inicio de la floración en las ramas del año en curso</b>      |  |                                                                        |               |
|         | early                                                            |       | précoce                                                                    |  | früh                                                              |  | temprana                                                                  |  | O'Neal (L)                                                             | 3             |
|         | medium                                                           |       | moyenne                                                                    |  | mittel                                                            |  | media                                                                     |  | Bluecrop (H)                                                           | 5             |
|         | late                                                             |       | tardive                                                                    |  | spät                                                              |  | tardía                                                                    |  |                                                                        | 7             |
| 36. (*) | QN                                                               | MG/VG | (+)                                                                        |  |                                                                   |  |                                                                           |  |                                                                        |               |
|         | <b>Time of beginning of fruit ripening on one-year-old shoot</b> |       | <b>Époque du début de la maturation des fruits sur les rameaux d'un an</b> |  | <b>Zeitpunkt des Beginns der Fruchtreife am einjährigen Trieb</b> |  | <b>Época de inicio de la madurez de los frutos en las ramas de un año</b> |  |                                                                        |               |
|         | very early                                                       |       | très précoce                                                               |  | sehr früh                                                         |  | muy temprana                                                              |  | Bluetta (H)                                                            | 1             |
|         | early                                                            |       | précoce                                                                    |  | früh                                                              |  | temprana                                                                  |  | Blueray (H)                                                            | 3             |
|         | medium                                                           |       | moyenne                                                                    |  | mittel                                                            |  | media                                                                     |  | Heerma (H)                                                             | 5             |
|         | late                                                             |       | tardive                                                                    |  | spät                                                              |  | tardía                                                                    |  | Darrow (H)                                                             | 7             |
|         | very late                                                        |       | très tardive                                                               |  | sehr spät                                                         |  | muy tardía                                                                |  | Elizabeth (H)                                                          | 9             |



|     | English |                                                                        | français                                                                           |                                                            | deutsch                                                                            | español    | Example Varieties<br>Exemples<br>Beispielssorten<br>Variedades ejemplo | Note/<br>Nota |
|-----|---------|------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------|---------------|
| 37. | (*)     | QN                                                                     | MG/VG                                                                              | (+)                                                        |                                                                                    |            |                                                                        |               |
|     |         | Time of beginning of<br>fruit ripening on<br>current season's<br>shoot | Époque du début de la<br>maturation des fruits<br>sur les rameaux en<br>croissance | Zeitpunkt des Beginns<br>der Fruchtreife am<br>Jahrestrieb | Época de inicio de la<br>madurez de los frutos<br>en las ramas del año<br>en curso |            |                                                                        |               |
|     |         | early                                                                  | précoce                                                                            | früh                                                       | temprana                                                                           | O'Neal (L) |                                                                        | 3             |
|     |         | medium                                                                 | moyenne                                                                            | mittel                                                     | media                                                                              | JU83 (L)   |                                                                        | 5             |
|     |         | late                                                                   | tardive                                                                            | spät                                                       | tardía                                                                             |            |                                                                        | 7             |

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

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

- (a) Observations should be made on unpruned bushes in the dormant season.
- (b) Observations should be made on fully developed leaves.
- (c) Observations should be made at the beginning of flowering.
- (d) Observations should be made on physiologically ripe fruits.

8.2 *Explanations for individual characteristics*

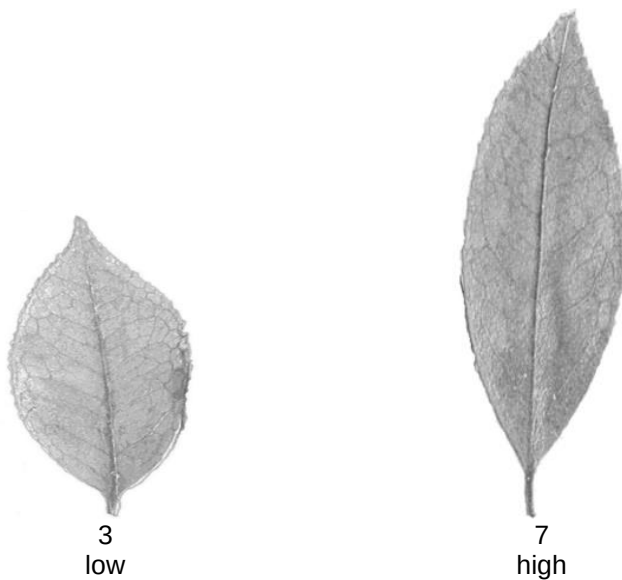
Ad. 1: Plant: vigor

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

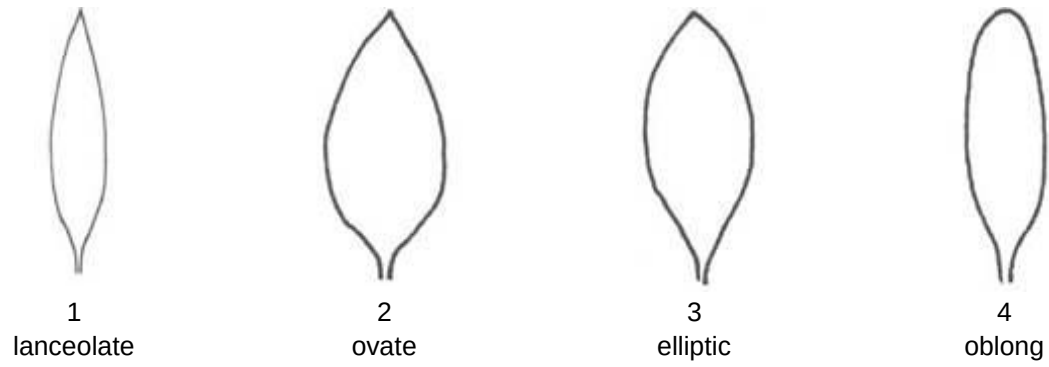
Ad. 4: One-year-old shoot: length of internode

Observation should be made on upper half of shoot.

Ad. 7: Leaf: ratio length/width



Ad. 8: Leaf: shape

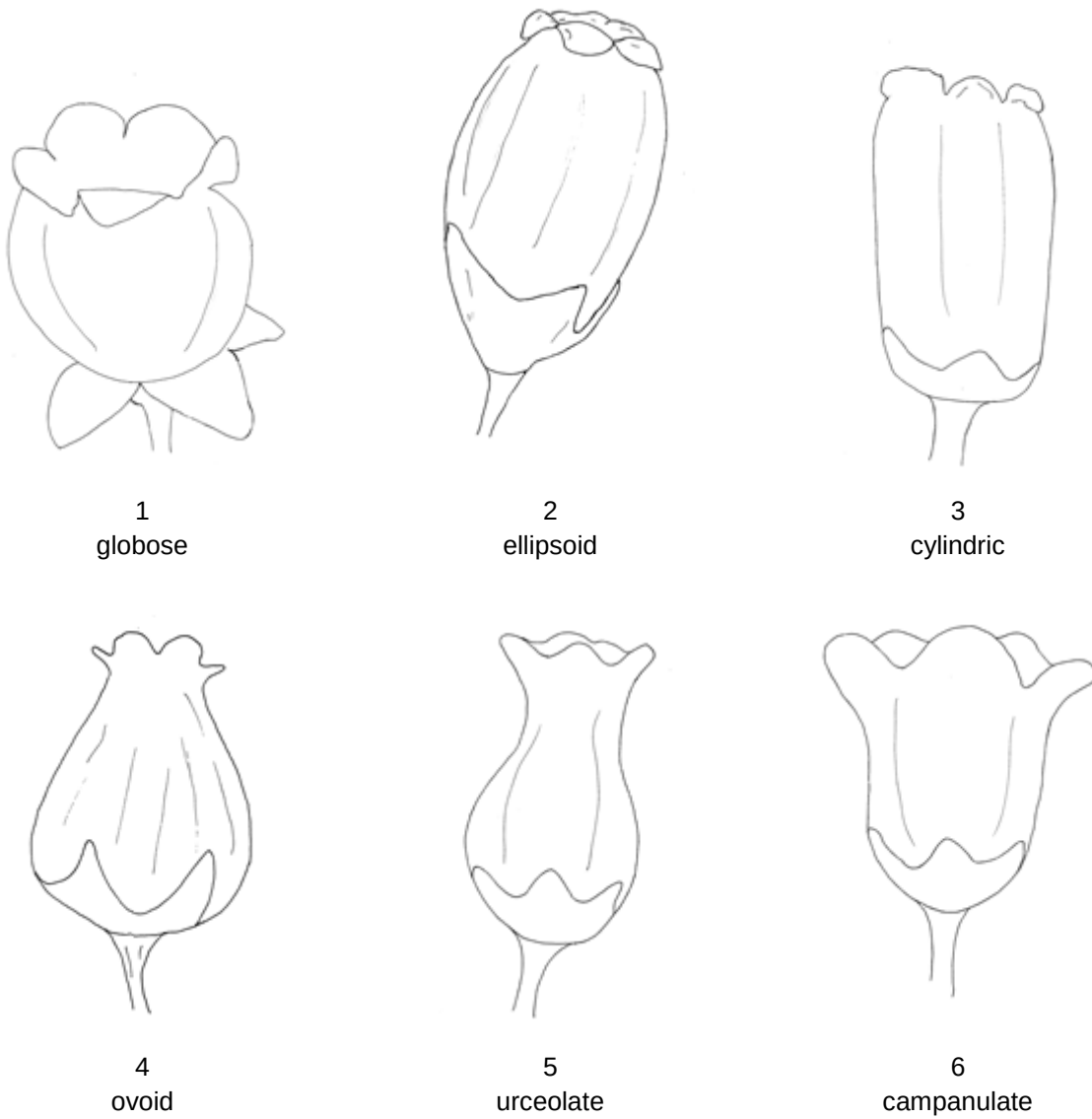


Ad. 13: Inflorescence: length

Observations should be made on middle third of shoot.



Ad. 14: Flower: shape of corolla



Ad. 18: Flower: conspicuousness of ridges on corolla tube

Observations should be made on outer side.



a: ridging

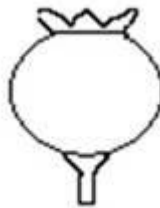
Ad. 21: Unripe fruit: intensity of green color

Observations should be made on green fruit with bloom.

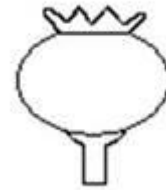
Ad. 23: Fruit: shape in longitudinal section



1  
elliptic

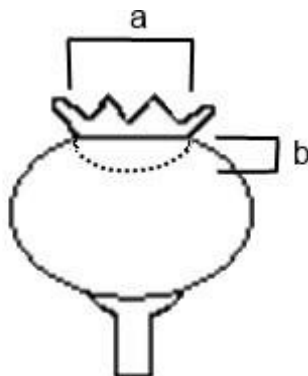


2  
circular



3  
oblate

Ad. 25: Fruit: diameter of calyx basin



a: diameter of calyx basin  
b: depth of calyx basin

Ad. 26: Fruit: depth of calyx basin

See Ad. 25

Ad. 28: Fruit: color of skin

Observations should be made after removal of bloom.

Ad. 29: Fruit: firmness

Firmness should be determined by hand in comparison to the example varieties, or measured using a penetrometer.

Ad. 30: Fruit: sweetness

Sweetness should be observed by tasting in comparison to the example varieties.

Ad. 31: Fruit: acidity

Acidity is determined by titration of titratable acids or by tasting.

Ad. 33: Time of beginning of vegetative growth

The time of beginning of vegetative growth is when the first vegetative buds begin to burst.

Ad. 34: Time of beginning of flowering on one-year-old shoot

The time of beginning of flowering is when 10% of the flowers are fully open.

Ad. 35: Time of beginning of flowering on current season's shoot

See Ad. 34

Ad. 36: Time of beginning of fruit ripening on one-year-old shoot

The time of beginning of fruit ripening is when 10% of the fruits are ripe.

Ad. 37: Time of beginning of fruit ripening on current season's shoot

See Ad. 36

9. Literature

Ebert, G., 2005: Anbau von Heidelbeeren und Cranberries. Ulmer Verlag, Stuttgart, DE.

Liebster, G., 1961: Die Kulturheidelbeere. Parey Verlag, Berlin und Hamburg, DE.

Rejman, A., 1994: Pomologia. PWRiL, Warszawa, PL.

Rejman, A., Pliszka, K., 1988: Borówka wysoka. PWRiL, Warszawa, PL.

Sękowski, B., 1993: Pomologia systematyczna. PWN, Warszawa, PL.

Sorge, P., 1984: Beerenobstsorten. J. Neumann-Neudamm, Melsungen, DE.

Trehane, J., 2004: Blueberries, Cranberries, and Other Vacciniums. Royal Horticultural Society, Plant Collector Guide. Timber Press, Cambridge, GB.

10. Technical Questionnaire

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

|  |                                                             |
|--|-------------------------------------------------------------|
|  | Application date:<br>(not to be filled in by the applicant) |
|--|-------------------------------------------------------------|

|                                                                                                         |  |
|---------------------------------------------------------------------------------------------------------|--|
| TECHNICAL QUESTIONNAIRE<br>to be completed in connection with an application for plant breeders' rights |  |
|---------------------------------------------------------------------------------------------------------|--|

|                                           |                |                                                                                            |     |
|-------------------------------------------|----------------|--------------------------------------------------------------------------------------------|-----|
| 1. Subject of the Technical Questionnaire |                |                                                                                            |     |
| 1.1.1                                     | Botanical name | <i>Vaccinium angustifolium</i> x <i>Vaccinium myrsinites</i> x <i>Vaccinium corymbosum</i> | [ ] |
| 1.1.2                                     | Common name    |                                                                                            |     |
| 1.2.1                                     | Botanical name | <i>Vaccinium angustifolium</i> Aiton                                                       | [ ] |
| 1.2.2                                     | Common name    | Lowbush Blueberry, Upland lowbush blueberry                                                |     |
| 1.3.1                                     | Botanical name | Hybrids between <i>Vaccinium corymbosum</i> and <i>Vaccinium angustifolium</i>             | [ ] |
| 1.3.2                                     | Common name    |                                                                                            |     |
| 1.4.1                                     | Botanical name | <i>Vaccinium corymbosum</i> x <i>Vaccinium angustifolium</i> x <i>Vaccinium virgatum</i>   | [ ] |
| 1.4.2                                     | Common name    |                                                                                            |     |
| 1.5.1                                     | Botanical name | <i>Vaccinium corymbosum</i> L.                                                             | [ ] |
| 1.5.2                                     | Common name    | Blueberry, High Bush Blueberry                                                             |     |
| 1.6.1                                     | Botanical name | <i>Vaccinium formosum</i> Andrews                                                          | [ ] |
| 1.6.2                                     | Common name    | Swamp Highbush Blueberry                                                                   |     |
| 1.7.1                                     | Botanical name | <i>Vaccinium myrtilloides</i> Michx.                                                       | [ ] |
| 1.7.2                                     | Common name    | Canada blueberry; Sourtop blueberry; Velvetleaf blueberry                                  |     |
| 1.8.1                                     | Botanical name | <i>Vaccinium myrtillus</i> L.                                                              | [ ] |
| 1.8.2                                     | Common name    | Bilberry, Blueberry, Whinberry, Whortleberry                                               |     |
| 1.9.1                                     | Botanical name | <i>Vaccinium simulatum</i> Small                                                           | [ ] |
| 1.9.2                                     | Common name    |                                                                                            |     |
| 1.10.1                                    | Botanical name | <i>Vaccinium virgatum</i> Aiton                                                            | [ ] |
| 1.10.2                                    | Common name    | Rabbit-eye blueberry, Southern black blueberry                                             |     |



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

|    |                                               |                      |
|----|-----------------------------------------------|----------------------|
| 2. | Applicant                                     |                      |
|    | Name                                          | <input type="text"/> |
|    | Address                                       | <input type="text"/> |
|    | Telephone No.                                 | <input type="text"/> |
|    | Fax No.                                       | <input type="text"/> |
|    | E-mail address                                | <input type="text"/> |
|    | Breeder (if different from applicant)         | <input type="text"/> |
| 3. | Proposed denomination and breeder's reference |                      |
|    | Proposed denomination (if available)          | <input type="text"/> |
|    | Breeder's reference                           | <input type="text"/> |

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

#4. Information on the breeding scheme and propagation of the variety

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

(a) controlled cross [ ]

(please state parent varieties)

(.....)

female parent

x

(.....)

male parent

(b) partially known cross [ ]

(please state known parent variety(ies))

(please state known parent varieties)

(.....)

female parent

x

(.....)

male parent

(c) unknown cross [ ]

4.1.2 Mutation [ ]

(please state parent variety)

4.1.3 Discovery and development [ ]

(please state where and when discovered and how developed)

4.1.4 Other [ ]

(Please provide details)

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

4.2 Method of propagating the variety

4.2.1 Vegetative propagation

- |                                 |     |
|---------------------------------|-----|
| (a) Cuttings                    | [ ] |
| (b) <i>In vitro</i> propagation | [ ] |
| (c) Other (state method)        | [ ] |

4.2.2 Other [ ]  
(Please provide details)

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

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

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

| Characteristics                                    | Example Varieties                   | Note  |
|----------------------------------------------------|-------------------------------------|-------|
| <b>5.1 Plant: vigor</b><br><b>(1)</b>              |                                     |       |
| very weak                                          |                                     | 1 [ ] |
| weak                                               | Dolce Blue (L)                      | 2 [ ] |
| medium                                             | DrisBlueSeven (L)                   | 3 [ ] |
| strong                                             | Bluecrop (H)                        | 4 [ ] |
| very strong                                        | Vernon (L)                          | 5 [ ] |
| <b>5.2 Plant: growth habit</b><br><b>(2)</b>       |                                     |       |
| upright                                            | Cargo (H), Ivanhoe (H), Spartan (H) | 1 [ ] |
| semi-upright                                       | Bluetta (H), Draper (H)             | 2 [ ] |
| spreading                                          | Blue Ribbon (H), Jersey (H)         | 3 [ ] |
| <b>5.3 One-year-old shoot: color</b><br><b>(3)</b> |                                     |       |
| green                                              | Puru (H)                            | 1 [ ] |
| reddish yellow                                     | Heerma (H)                          | 2 [ ] |
| greenish red                                       | Reka (H)                            | 3 [ ] |
| greyish red                                        | Berkeley (H)                        | 4 [ ] |
| dark red                                           | Aron (H)                            | 5 [ ] |
| reddish brown                                      | Earliblue (H)                       | 6 [ ] |
| <b>5.4 Infructescence: density</b><br><b>(20)</b>  |                                     |       |
| very sparse                                        |                                     | 1 [ ] |
| very sparse to sparse                              |                                     | 2 [ ] |
| sparse                                             | Rahi (L)                            | 3 [ ] |
| sparse to medium                                   |                                     | 4 [ ] |
| medium                                             | Toro (H)                            | 5 [ ] |
| medium to dense                                    |                                     | 6 [ ] |
| dense                                              | Tifblue (L)                         | 7 [ ] |
| dense to very dense                                |                                     | 8 [ ] |
| very dense                                         |                                     | 9 [ ] |

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

| Characteristics                                                                    | Example Varieties              | Note  |
|------------------------------------------------------------------------------------|--------------------------------|-------|
| <b>5.5 Fruit: color of skin</b><br><b>(28)</b>                                     |                                |       |
| pink                                                                               | Pink Lemonade (L)              | 1 [ ] |
| blue red                                                                           | Delite (L)                     | 2 [ ] |
| light blue                                                                         | Berkeley (H)                   | 3 [ ] |
| medium blue                                                                        | Patriot (H)                    | 4 [ ] |
| dark blue                                                                          | Heerma (H)                     | 5 [ ] |
| blackish blue                                                                      | Emil (H), Freda (H), Putte (H) | 6 [ ] |
| <b>5.6 Plant: fruiting type</b><br><b>(32)</b>                                     |                                |       |
| on one-year-old shoots only                                                        | Darrow (H), Patriot (H)        | 1 [ ] |
| on one-year-old and current season shoots                                          | Burlington (H), Concord (H)    | 2 [ ] |
| <b>5.7 Time of beginning of flowering on one-year-old shoot</b><br><b>(34)</b>     |                                |       |
| very early                                                                         | Patriot (H)                    | 1 [ ] |
| very early to early                                                                |                                | 2 [ ] |
| early                                                                              | Weymouth (H)                   | 3 [ ] |
| early to medium                                                                    |                                | 4 [ ] |
| medium                                                                             | Berkeley (H)                   | 5 [ ] |
| medium to late                                                                     |                                | 6 [ ] |
| late                                                                               | Darrow (H)                     | 7 [ ] |
| late to very late                                                                  |                                | 8 [ ] |
| very late                                                                          | Jersey (H)                     | 9 [ ] |
| <b>5.8 Time of beginning of flowering on current season's shoot</b><br><b>(35)</b> |                                |       |
| very early                                                                         |                                | 1 [ ] |
| very early to early                                                                |                                | 2 [ ] |
| early                                                                              | O'Neal (L)                     | 3 [ ] |
| early to medium                                                                    |                                | 4 [ ] |
| medium                                                                             | Bluecrop (H)                   | 5 [ ] |
| medium to late                                                                     |                                | 6 [ ] |
| late                                                                               |                                | 7 [ ] |
| late to very late                                                                  |                                | 8 [ ] |
| very late                                                                          |                                | 9 [ ] |

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

| Characteristics                                                                | Example Varieties | Note  |
|--------------------------------------------------------------------------------|-------------------|-------|
| <b>5.9 (36) Time of beginning of fruit ripening on one-year-old shoot</b>      |                   |       |
| very early                                                                     | Bluetta (H)       | 1 [ ] |
| very early to early                                                            |                   | 2 [ ] |
| early                                                                          | Blueray (H)       | 3 [ ] |
| early to medium                                                                |                   | 4 [ ] |
| medium                                                                         | Heerma (H)        | 5 [ ] |
| medium to late                                                                 |                   | 6 [ ] |
| late                                                                           | Darrow (H)        | 7 [ ] |
| late to very late                                                              |                   | 8 [ ] |
| very late                                                                      | Elizabeth (H)     | 9 [ ] |
| <b>5.10 (37) Time of beginning of fruit ripening on current season's shoot</b> |                   |       |
| very early                                                                     |                   | 1 [ ] |
| very early to early                                                            |                   | 2 [ ] |
| early                                                                          | O'Neal (L)        | 3 [ ] |
| early to medium                                                                |                   | 4 [ ] |
| medium                                                                         | JU83 (L)          | 5 [ ] |
| medium to late                                                                 |                   | 6 [ ] |
| late                                                                           |                   | 7 [ ] |
| late to very late                                                              |                   | 8 [ ] |
| very late                                                                      |                   | 9 [ ] |

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

6. Similar varieties and differences from these varieties

*Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.*

| Denomination(s) of variety(ies) similar to your candidate variety | Characteristic(s) in which your candidate variety differs from the similar variety(ies) | Describe the expression of the characteristic(s) for the <b>similar</b> variety(ies) | Describe the expression of the characteristic(s) for <b>your</b> candidate variety |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <i>Example</i>                                                    | <i>Fruit: size</i>                                                                      | <i>small</i>                                                                         | <i>medium</i>                                                                      |
|                                                                   |                                                                                         |                                                                                      |                                                                                    |
|                                                                   |                                                                                         |                                                                                      |                                                                                    |
|                                                                   |                                                                                         |                                                                                      |                                                                                    |
| Comments:                                                         |                                                                                         |                                                                                      |                                                                                    |

| TECHNICAL QUESTIONNAIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                  | Page {x} of {y} | Reference Number: |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------|
| #7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Additional information which may help in the examination of the variety                                                                          |                 |                   |
| 7.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety? |                 |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes                                                                                                                                              | [ ]             | No [ ]            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (If yes, please provide details)                                                                                                                 |                 |                   |
| 7.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Are there any special conditions for growing the variety or conducting the examination?                                                          |                 |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes                                                                                                                                              | [ ]             | No [ ]            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (If yes, please provide details)                                                                                                                 |                 |                   |
| 7.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Other information                                                                                                                                |                 |                   |
| <p>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.</p> <p>The key points to consider when taking a photograph of the candidate variety are:</p> <ul style="list-style-type: none"> <li>• Indication of the date and geographic location</li> <li>• Correct labeling (breeder's reference)</li> <li>• Good quality printed photograph (minimum 10 cm x 15 cm) and/or sufficient resolution electronic format version (minimum 960 x 1280 pixels)"</li> </ul> <p>Further guidance on providing photographs with the Technical Questionnaire is available in document TGP/7 "Development of Test Guidelines", Guidance Note 35 (<a href="http://www.upov.int/tgp/en/">http://www.upov.int/tgp/en/</a>).</p> <p>[The link provided may be deleted by members of the Union when developing authorities' own test guidelines.]</p> |                                                                                                                                                  |                 |                   |
| 7.3.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | What are the chilling requirements for the variety? (also indicate number of chilling hours)                                                     |                 |                   |



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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                       |         |        |                                                    |         |        |     |                                                       |         |        |     |                |         |        |     |               |         |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------|--------|----------------------------------------------------|---------|--------|-----|-------------------------------------------------------|---------|--------|-----|----------------|---------|--------|-----|---------------|---------|--------|
| <p>8. Authorization for release</p> <p>(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?</p> <p>Yes [ ] No [ ]</p> <p>(b) Has such authorization been obtained?</p> <p>Yes [ ] No [ ]</p> <p>If the answer to (b) is yes, please attach a copy of the authorization.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                       |         |        |                                                    |         |        |     |                                                       |         |        |     |                |         |        |     |               |         |        |
| <p>9. Information on plant material to be examined or submitted for examination</p> <p>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.</p> <p>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:</p> <table border="0"><tr><td>(a)</td><td>Microorganisms (e.g. virus, bacteria, phytoplasma)</td><td>Yes [ ]</td><td>No [ ]</td></tr><tr><td>(b)</td><td>Chemical treatment (e.g. growth retardant, pesticide)</td><td>Yes [ ]</td><td>No [ ]</td></tr><tr><td>(c)</td><td>Tissue culture</td><td>Yes [ ]</td><td>No [ ]</td></tr><tr><td>(d)</td><td>Other factors</td><td>Yes [ ]</td><td>No [ ]</td></tr></table> <p>Please provide details for where you have indicated "yes".</p> <p>.....</p> |                                                       |         | (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 [ ] |
| (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 [ ] |                                                    |         |        |     |                                                       |         |        |     |                |         |        |     |               |         |        |
| <p>10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:</p> <p>Applicant's name <input type="text"/></p> <p>Signature <input type="text"/> Date <input type="text"/></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                       |         |        |                                                    |         |        |     |                                                       |         |        |     |                |         |        |     |               |         |        |

[End of document]