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**TECHNICAL WORKING PARTY FOR VEGETABLES**

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**NEW SECTION FOR COLOR CHARACTERISTICS  
(REVISION OF DOCUMENT TGP/14)**

*Document prepared by experts from the European Community and the Netherlands*

1. This document presents a draft of a Subsection for color for inclusion in document TGP/14 "Glossary of [Technical, Botanical and Statistical] Terms Used in UPOV Documents".
2. At its thirty-ninth session, held in Osijek, Croatia, from May 24 to 28, 2010, the Technical Working Party for Agricultural Crops (TWA) considered document TWA/39/23 (see document TWA/39/27 "Report", paragraphs 68 and 71).
3. The TWA agreed that the TWO and TWF should be invited to consider how and where to provide guidance on the use of the RHS Colour Chart for assessing distinctness.

**DRAFT**

**DOCUMENT TGP/14**

**“GLOSSARY OF [TECHNICAL, BOTANICAL AND STATISTICAL] TERMS  
USED IN UPOV DOCUMENTS”**

**Section 2: Botanical Terms**

Subsection 3: Color

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### SUBSECTION 3: COLOR

#### PART I: INTRODUCTION

The purpose of this document is:

- (a) To provide guidance on the development of characteristics related to colors and color patterns;
- (b) To provide standard illustrations and examples in relation to colors and color patterns which may be useful for inclusion in the Test Guidelines, whilst noting that illustrations for specific characteristics can be found in the relevant Test Guidelines and noting that searches for relevant individual characteristics can be made through TGP/7 “Collection of Approved Characteristics”; and
- (c) To provide definitions of botanical terms with an indication of whether those terms are generally used in Test Guidelines, or whether alternative terms might be more appropriate for use in Test Guidelines.

#### PART II: COLOR

##### *2.1 Components of Color*

Color is complex and can be defined in terms of three main elements: HUE (distinguishes the different colors), SATURATION (the element of color that indicates the purity or grayness of the color) and the BRIGHTNESS (distinguishes the total amount of light that is reflected by the color, how the color is perceived by the eye on the dark to light scale). However for the purposes of UPOV Test Guidelines it is more practical to use a separation of two elements of color: COLOR and INTENSITY. The illustration below shows the two elements: COLOR in the horizontal cross section and INTENSITY in the vertical axis:



## 2.2 Terms used for color

There are various forms in which color may be presented as states of expression in the Test Guidelines:

(a) Single color  
*e.g. yellow, red, green, blue, etc. or*

(b) Color combination  
*e.g. "green red"*

in such combinations, the second color indicates the predominant color. For example "green red" belongs to the red group and "red green" belongs to the green group.

(c) Multiple color combinations (use of "-ish")  
in cases where there is a limited range of colors which are predominantly one color (e.g. yellow) or predominantly one color combination (e.g. yellow green), but which cover a minor presence of some other colors, the color can be described as, for example,

*yellowish*, covers all colors which are predominantly yellow (would include, for example, white yellow; brown yellow; orange yellow, etc.)

*yellowish green* covers all colors which are predominantly green with some yellow (would include, for example, white yellow green; brown yellow green; orange yellow green, etc.)

(d) Intensity  
the intensity can be presented in combination with the color  
*e.g. light green, dark green etc.*

## 2.3 Type of observation

### 2.3.1 Color chart

2.3.1.1 When the plant part observed can have many different colors the use of a color chart to describe the color is useful.

2.3.1.2 Because of its worldwide availability, UPOV uses the color chart from the Royal Horticultural Society (RHS), the "RHS Colour Chart". There are five editions of this color chart, dating from 1966, 1986, 1995, 2001 and 2007. Since 2005, the "RHS Mini Colour Chart" has also been published by the Flower Council Holland and is also frequently used by breeders. Other color charts might also be appropriate.

2.3.1.3 Document TGP/7 "Development of Test Guidelines" (see ASW 4(2)(d)) explains that "Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in the British Standard 950, Part I. These determinations should be made with the plant part placed against a white background. When it is not possible to make

observations under artificial daylight, for example when observations have to be made in the open, observations should not be made in direct sunlight. The observations should be made on a cloudy day with sufficient light intensity, or in a shaded area. When artificial shading is needed in the open, it should be ensured that the color of the shading cloth does not interfere with the observations.

2.3.1.4 When using the RHS Colour Chart, the reference number of the RHS color, the color name and the edition of the chart should be mentioned in the variety description. A proposal for naming the colors has been made in Annex I of this document.

## 2.3.2 By visual observation

It is not always necessary, or even possible, to make color observations with the help of a color chart. Some examples where the use of a color chart is less useful are:

- (a) in cases where the intensity of a color is observed (e.g. intensity of green color: light - medium - dark);
- (b) where the size of the color surface or amount of color is very small;
- (c) where only limited, clearly separated, color expressions are present;
- (d) where other elements influence the observation of color (e.g. where the surface is covered with hairs or with a waxy layer);
- (e) where colors are blended;
- (f) where colors are not well represented on the color chart (e.g. greens, browns, dark intensities of some colors).
- (g) where an overall color impression is required.

## 2.4 *Developing characteristics*

### 2.4.1 Type of expression

As explained in Section 2.1, color is complex and can be defined in terms of three main elements: hue, saturation and intensity. Therefore, any characteristic which combines more than one of those elements is likely to constitute a pseudo-qualitative characteristic. However, in some cases it may be appropriate to consider one of the elements as a quantitative characteristic. For example, the intensity of green color can be considered as a quantitative characteristic, with the states light, medium and dark. Where there is a clear discontinuity between color states (e.g. white and red), a qualitative characteristic is indicated.

#### 2.4.1.1 Examples

##### 2.4.1.1.1 Qualitative characteristics

*Stem: color: green (1); red (2)*

##### 2.4.1.1.2 Quantitative characteristics

*Leaf: intensity of green color: light (3); medium (5); dark (7) (1 to 9 scale)*

##### 2.4.1.1.3 Pseudo-Qualitative characteristics

###### (i) Single colors

*Flower: main color: white (1); yellow (2); orange (3); red (4)*

###### (ii) Single colors / color combination

*Flower: main color: white (1); yellow white (2); yellow (3); yellow orange (4); orange (5)*

(iii) Single colors / intensity

*Flower: main color: white (1); light yellow (2); medium yellow (3); dark yellow (4); orange (5)*

(iv) Multiple color combinations (use of “-ish”)

*Spathe: color of apex: whitish (1); yellowish (2); greenish (3)*

(v) Color chart

*Flower: main color: RHS Colour Chart (indicate reference number)*

*=> variety description: RHS 11D – light yellow orange*

(sometimes the color observed differs slightly from the RHS Colour Chart number. Therefore it may be necessary to refer to several RHS Colour Chart numbers and/or to add a comment to the observed RHS Colour Chart Number, e.g.:

*=> variety description: RHS 11D – light yellow orange, slightly darker*

*=> description: RHS 11D to 19D – light yellow orange)*

## 2.4.2 Order of states of expression

In the Test Guidelines, the states of expression for colors are normally presented in the following order: white, green, yellow, orange, pink, red, purple, violet, blue, brown, black. (note: it is quite common to have the order white, yellow, green where only those colors occur). However, the chronological appearance of the color (e.g. as the fruit ripens) may also be used (see also documents TGP/14/1, Glossary of Technical, Botanical and Statistical Terms Used in UPOV Documents [\[cross ref.\]](#)) where appropriate. The same sequence should normally be used for organs with similar states within the same Test Guidelines (e.g. color of leaf and color of the stem).

## 2.5 Unsuitable color names

Color terms such as “bronze”, “fuchsia”, “gold”, “ochre”, “salmon”, “silver”, etc. should not be used as states of expression in the Test Guidelines because they could cause confusion concerning the intended color. Therefore, these terms should be replaced by standard colors (e.g. orange brown instead of bronze). However, where these terms are intended to cover a wide range of colors and where those colors do not overlap with the colors in any other states of expression, they could be used in the Test Guidelines. For example: the use of “salmon” to cover all colors between pink and brown, where the only other possible colors are white and green.

*Example: Flower: Pistil: Main color: white (1); green (2); salmon (3)*

## 2.6 Timing of observations

2.6.1 All color observations on the different organs of the plant should be made at a clearly defined stage of development of the organ. Color expression of the organ might change, for example, during development or aging of the plant/organ or the time of the day.

2.6.2 In cases where the color of an organ, or part of an organ, changes during the development of the plant, it may be appropriate to have separate characteristics for the color

at appropriate, clearly defined stages of development. In some cases, it may also be appropriate to have a characteristic which describes the rate at which the color changes.

### PART III: COLOR DISTRIBUTION / PATTERN

#### 3.1 *General: The use of Number of Colors*

A characteristic for number of colors of a plant part should be indicated as pseudo-qualitative because there is always the risk that a person may consider hues of a color to be a different color therefore record them as additional colors while another person may not does not.

#### 3.2 *Approaches to describe colors and color patterns*

There are two different approaches to describe a plant part which has more than one color.

Approach A: based upon the surface area of the color in question.

Approach B: based upon the RHS Colour Chart number of the color in question.

##### 3.2.1 Approach A: based on the surface area occupied by the color in question

3.2.1.1 In this approach all colors of a plant part are determined according to the size of the surface area they occupy. The color with the largest surface area is the main color, the one with the second largest area is the secondary color and so on.

3.2.1.2 The following standard explanation should be included in the Test Guidelines when using this approach for describing color:

“The main color is the color which has a continuous dispersion across the surface of the plant part; in general and will also cover the largest surface area.”

3.2.1.3 The term “MAIN COLOR” should only be used in association with a clearly identifiable color; one with a continuous distribution across the relevant plant part, without consideration of other colors present as isolated spots, patches etc.

##### 3.2.2 Approach B: Order of observation of colors based upon the RHS Colour Chart number of the color in question

3.2.2.1 In this approach all colors of the plant part concerned are assessed using the RHS Colour Charts first. The colors are then ordered from the lowest to highest number according to the color number from the Color Chart, with the lowest number being RHS 1 A and the highest number being RHS 203 D. With this approach the determination of color is made without consideration of the surface area occupied by that color

3.2.2.2 The following standard explanation should be included in the Test Guidelines when using this approach for describing color:

The order of colors follows the RHS Colour Chart order. The lowest number is RHS 1A and the highest RHS 203D.



The color should first be described, followed by characteristics explaining the area, distribution, pattern and conspicuousness of the color.

3.2.2.3 The same sequence should be followed for color two, color three and so on. In order to make it clear that a variety does not show color two, color three and so on, the state of expression 'none' (1) should be added as an option to the characteristic.

*Example:*

|          |  |                |
|----------|--|----------------|
| <b>1</b> | <b>Leaf blade: secondary color</b>               |                |
|          | RHS Colour Chart (indicate reference number)     |                |
| <b>2</b> | <b>Leaf blade: secondary color: distribution</b> |                |
|          | none   | 1 <sup>a</sup> |
|          | on veins   | 2              |
|          | along veins                                      | 3              |
|          | at marginal zone                                 | 4              |
| <b>3</b> | <b>Leaf blade: secondary color: pattern</b>      |                |
|          | speckled   | 1              |
|          | irregular  | 2              |
|          | throughout                                       | 3              |

### 3.3 *Guidance for deciding which approach to use for the description of colors and color patterns*

3.3.1 The decision which approach to use describing the colors of a plant part depends on the number of colors, types of color distribution and color patterns which are possible for the species concerned.

3.3.2 In situations where only a few colors, a few types of color distribution or a few color patterns need to be described, it would be more appropriate to use Approach A. For more complex situations where several different colors and/or several different types of color distribution and color are possible, it would be more appropriate to use Approach B. A good example of the use of Approach A can be found in the Alstroemeria Test Guideline (TG/29/7), an example for Approach B can be found in the Heuchera Test Guideline (TG/HEUCH(proj.2)).

## PART IV: COLOR DISTRIBUTION AND COLOR PATTERNS

### 4.1 *Color distribution*

There are two ways of describing the distribution of color:

- 1) descriptive approach: for example, at margin, at distal part, etc.
- 2) systematic approach (see Annex II).<sup>b</sup>

### 4.2 *Terms used for color distribution*

The following sets of terms can be used to describe the distribution of color

#### 4.2.1 *Main/Secondary/Tertiary Color (see also chapter 3.3)*

- (a) MAIN COLOR: color of the largest surface area of the plant part
- (b) SECONDARY COLOR: when more than one color is present, the color covering the second largest surface area of the plant part is the secondary color.
- (c) TERTIARY COLOR: when more than two colors are present, the color covering the third largest area of the plant part is the tertiary color.

#### 4.2.2 *Ground/Over Color*

For organs which have two independent layers of tissue containing color pigmentation (e.g. apple), the two layers could be described as follows:

- (a) GROUND COLOR: The first color to appear chronologically during the development of the plant parts. Other colors may develop in time in the form of spots, macules, or a color flush or blush. The ground color is not always the color occupying the largest surface area of the plant part concerned.
- (b) OVER COLOR: In the case of a plant part which has a ground color upon which a second color such as a flush develops over time, the flush is considered the over color. The over color is not always the color occupying the smallest surface area of the plant part concerned.

#### 4.2.3 *Terms used for types of color*

- (a) ONE-COLORED: where the organ has only one color hue, but the color varies in intensity and/or saturation. There may be clear borders between the different color intensities and/or saturations, or they may be overlaid, partially blended or in the form of a pattern.
- (b) SHADED: a particular case of a one-colored organ where there are no clear borders between the different intensities and/or saturations. The term is only necessary where there are both types of one-colored varieties for a characteristic, e.g. one-colored / shaded (state 1); one-colored / non self-colored (state 2); bicolored (state 3).<sup>c</sup>
- (c) BICOLORED: where an organ has two clearly different color hues. There may be clear borders between the two color hues, or there may be partial blending along the border where the two colors met. Often the two colors are distributed on the plant concerned in such a way as to suggest a pattern.

#### 4.3 *Color change over time*

When a plant organ changes the color over time it might be necessary to observe the same organ at different times of its development.

Example:

---

**21. Fruit: color (before maturity)**

(\*)

|    |                |   |
|----|----------------|---|
| PQ | greenish white | 1 |
|    | yellow         | 2 |
|    | green          | 3 |
|    | purple         | 4 |

---

**33. Fruit: color (at maturity)**

(\*)

|    |        |   |
|----|--------|---|
| PQ | yellow | 1 |
|    | orange | 2 |
|    | red    | 3 |
|    | brown  | 4 |
|    | green  | 5 |

---

#### 4.4 *Variegation*

**VARIEGATION:** well defined areas of different colors or intensities, with less or no chlorophyll, especially as irregular patches or stripes on the plant part concerned.

The following approaches might be used as appropriate on a case-by-case basis:

In cases where there are more than two colors involved in the variegation:

- (a) To exclude variegation from the general color pattern by defining variegation and indicating “(excluding variegation)” in the general pattern characteristics (where appropriate); or
- (b) To consider variegation within the general color pattern and indicate “(including variegation)”

#### 4.5 *Terms used for Color Patterns*

A schematic illustration of the different color patterns can be found in Annex II (to be further developed).

##### 4.5.1 *Flush/Blush*

- (a) **FLUSH:** different color hue as a faint layer over the ground color of a surface
- (b) **BLUSH:** special case of FLUSH where the color of the layer over the ground color of the surface is reddish, pinkish or purplish.

#### 4.5.2 *Spotted/Dotted/Patched/Blotched/Speckled/Mottled*

- (a) **SPOTTED:** with other color as sharply outlined spots (round or nearly round contour). Compare to “dotted”, where the spots are smaller;
- (b) **DOTTED:** finely spotted, if made with a pen. Compare to “spotted”, where the spots are larger and “patched”, where the spots are irregular;
- (c) **PATCHED:** with small irregular spots that have another color. Compare to “dotted”, “spotted” and “blotched”;
- (d) **BLOTCHED:** with sharply outlined irregular large spots. Compare to “spotted”, where the spots are regular, “mottled”, where the blotches are not sharply outlined and “speckled” where the spots are irregular, but smaller;
- (e) **SPECKLED:** with many small spots, patches (irregular contour) or flecks (irregular spot, usually longer than broad);
- (f) **MOTTLED:** with other color as blotches which are not sharply outlined. Compare to “spotted” and “blotched”, which are sharply outlined and to “blotched” where the spots are irregular, but larger.
- (g) **FLECKED:** with sharply outlined irregular large and small spots.

#### 4.5.3 *Veined/at midrib*

- (a) **VEINED:** different color of veins compared to the rest of the organ.
- (b) **at/along MIDRIB:** with other color on or around the central vein (synonym MAIN VEIN for monocotyledonous plants). Compare to “central bar” where the zone with another color is broader.

#### 4.5.4 *On Margin/Picotee/Marginal Zone*

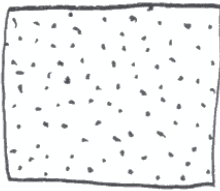
- (a) **ON MARGIN:** different color around the margin of an organ. Compare to “marginal zone” where the zone with another color is broader.
- (b) **PICOTEE:** flower characteristic, special form of EDGED with color pattern of margin on a flower, where the margin is narrow and has a different, contrasting, color.
- (c) **MARGINAL ZONE:** with another color on the marginal zone (see also ON MARGIN/EDGED and PICOTEE). Compare to “on margin/edged” where the zone with another color is narrower.

#### 4.5.5 *Striped/Striated/Aciculate/Banded/Central Band/Central Bar*

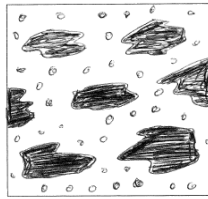
- (a) **STRIATED:** finely striped: with another color as fine, more or less parallel stripes.
- (b) **ACICULATE:** with another color as fine, straight stripes, lying in different directions.
- (c) **BANDED:** broadly striped: with another color as broad, more or less parallel stripes. Compare to “striped” (narrower) and “striae” (much finer).
- (e) **CENTRAL BAND:** with another color as a horizontal band at the central part of the organ. Compare to “central bar” which is vertical.
- (f) **CENTRAL BAR:** with another color as a vertical bar at the central part of the organ. Compare to “midrib”, which is usually narrower and “central band” which is horizontal.

- (g) MARBLING: resembling marble in color pattern
- (h) NETTED: with another color as in the form of a net over the surface of the plant part.
- (h) TESSELATED = chequered, marked with a grid of small, regular shapes.

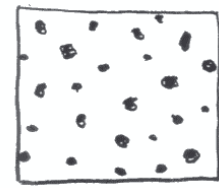
4.6 Illustrations



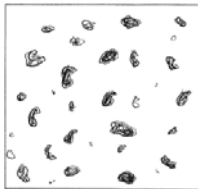
Dotted



Speckled [to be improved]



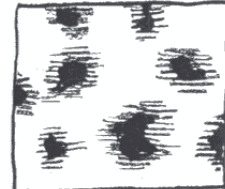
Spotted



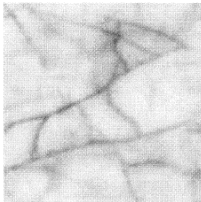
Patched



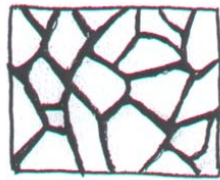
Blotched (Maculate)



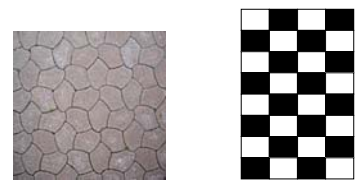
Mottled



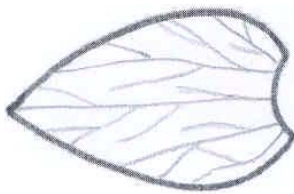
Marbling



Reticulate (Netted)



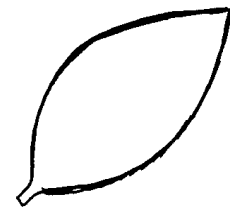
Tessellate



Veined



Midrib



On Margin (Edged)



Picotee



Marginal Zone



Central Band



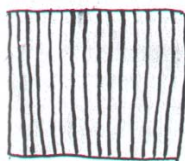
Central Bar



Banded



Striped



Striated



Aciculate

#### 4.7 *Pigments, such as anthocyanin coloration*

4.7.1 Color pigments like anthocyanin coloration usually can be found on a plant organ or part of an organ in the form of an over color. Depending on the amount and intensity of the pigments it could be useful to describe the color of the organ with or without the pigments. If the pigments should be excluded from the observation it should be indicated in the characteristic (e.g. Leaf blade: color (excluding anthocyanin)).

4.7.2 Where the name of the pigment is known, reference should be made to the name, e.g. “anthocyanin coloration”. Where the name of the pigment is not known, the color should be mentioned, e.g. “red coloration”.

4.7.3 Pigments can be described using intensity and/or size of their distribution. Usually the intensity is a QN characteristic, e.g.

---

|           |   |  |   |
|-----------|---|--|---|
| <b>1.</b> | <b>Leaf blade: anthocyanin coloration</b> |  |   |
| <b>QN</b> | weak                                      |  | 3 |
|           | medium                                    |  | 5 |
|           | strong                                    |  | 7 |

---

The distribution of the pigment is usually a PQ characteristic, e.g.

---

|           |   |  |   |
|-----------|---|--|---|
| <b>2.</b> | <b>Leaf blade: distribution of anthocyanin coloration</b> |  |   |
| <b>PQ</b> | at margin   |  | 1 |
|           | along veins   |  | 2 |
|           | at base   |  | 3 |

---

#### 4.8 *Other Color Terminology: Glaucosity*

GLAUCOSITY(BLOOM): This refers to the grayish blue or grayish green, powdery waxy bloom covering the surface of a plant part and can often be rubbed off or easily removed.

#### 4.9 *Conspicuousness*

CONSPICUOUS: clearly visible, evident.

INCONSPICUOUS: not clearly visible, obscure.

4.9.1 Additional notes in relation to conspicuousness observations:

In some cases conspicuousness could be difficult to be observed, for instance for small organs (e.g. veins, hairs), or because they are not consistently expressed across the organ.

4.9.2 To make clear what is meant with the term conspicuousness the following standard wording could be used in the TG:

- (a) The conspicuousness is determined by the color contrast

(b) The conspicuousness is determined by the color contrast, combined with the size.

4.9.3 Determinations on conspicuousness are influenced by the color contrast of what is being observed as well as its relative size.

#### 4.10 *The use of photographs to illustrate color distribution and color patterns*

For all mentioned approaches it could be useful to recommend that a photograph be taken to illustrate certain color characteristics. It is recommended that a disclaimer be included in the Test Guideline to clarify the purpose for which the photograph is to be used; i.e. to illustrate number of colors, types of color distribution and/or color patterns, rather than the actual colors of the plant part concerned.

“A photograph of the [relevant plant part] should be provided in conjunction with the description in order to clarify the color distribution and/or color pattern. However, a warning should be added to this photograph, explaining that the primary intent of the photograph is to show the distribution and/or pattern of colors on the plant part rather than the actual colors. Color on photographs can be affected by the technology of the camera and the facilities used to display the photograph (printer, overhead projector, etc.).”

#### 4.11 *Examples of Color Distribution / Pattern Characteristics*

##### 4.11.1 *Main/Secondary/Tertiary Color*

|                          |  |      |
|--------------------------|--|------|
| Flower: Main color:      | RHS Colour Chart (indicate reference number) | (PQ) |
| Flower: Secondary color: | RHS Colour Chart (indicate reference number) | (PQ) |
| Flower: Tertiary color:  | RHS Colour Chart (indicate reference number) | (PQ) |

or white (1), red (2).....

(When the area of the secondary and/or tertiary color is relatively small, it will be difficult to determine the color using the RHS Colour Chart. In such cases a second option, as indicated under tertiary color, should be used.)



4.11.2 *Ground/Over Color*

|                                    |  |      |
|------------------------------------|--|------|
| Fruit: Ground color                | white (1); whitish yellow (2); yellow (3); ...   | (PQ) |
| Fruit: Over color:                 | orange red (1); pink red (2); red (3);<br>purple red (4); brown red (5)  | (PQ) |
| Fruit: Relative area of over color | absent or very small (1); small (3); medium (5);<br>large (7); very large (9)  | (QN) |
| Fruit: Intensity of over color     | light (3); medium (5); dark (7)  | (QN) |
| Fruit: Pattern of over color       | only solid flush (1); solid flush with weakly<br>defined stripes (2); solid flush with strongly<br>defined stripes (3); weakly defined flush with<br>strongly defined stripes (4); only stripes (5);<br>flushed and mottled (6); flushed, striped and<br>mottled (7) | (PQ) |

4.11.3 *Variegation*

|  |   |      |
|--|---|------|
| Leaf: variegation  | absent (1); present (9)                                     | (QL) |
| Leaf: intensity of green color<br>(excluding variegation)                          | light (3); medium (5); dark (7)                             | (QN) |
| Leaf: color of variegation   | white (1); yellowish (2); light green (3)                   | (PQ) |
| <u>Varieties with variegated leaves only:</u><br>Leaf: distribution of variegation | near main vein (1); near margin (2);<br>randomly spread (3) | (PQ) |

4.11.4 *One-/Two-Colored*

|  |   |      |
|--|---|------|
| Ray floret: number of colors   | one (1); two (2)  | (PQ) |
| <u>Only one-colored varieties</u><br>Ray floret: Color distribution of<br>upper side | none (1); lighter towards base (2);<br>lighter towards apex (3) | (PQ) |

## PART V: INDEX OF DEFINITIONS

Note: A single list (index) for Technical terms (e.g. “distinctness”, “uniformity”, “variety” etc.), Botanical terms (shapes, colors etc.) and Statistical terms to be provided at the end of TGP/14. In that list, it will be indicated in which section to find an explanation of that term.

*(to be provided for:)*

Aciculate  
Anthocyanin coloration  
Banded  
Bloom  
Blotched  
Blush  
Brightness  
Central Band  
Central Bar  
Color  
Conspicuous  
Dotted  
Edged  
Fleck  
Flush  
Glaucosity  
Ground color  
Hue  
Inconspicuous  
Lightness  
Main color  
Main vein  
Marbling  
Marginal zone  
Midrib  
Mottled  
Netted  
On margin  
One-colored  
Over color  
Patched  
Picotee  
RHS color  
RHS colour chart  
RHS mini colour chart  
Saturation  
Secondary color  
Shaded  
Speckled  
Spotted  
Striated  
Striped  
Tertiary color  
Tessellated  
Variegation  
Veined  
Waxy layer

PART VI: LITERATURE

RHS Colour Chart, 2007, Royal Horticultural Society, London, GB.

RHS Mini Colour Chart, 2005, Royal Horticultural Society, London, GB, published together with the Flower Council Holland, Leiden, NL.

Horticultural Colour Chart (HCC Chart), 1942, R.F. Wilson, Published by the British Colour Council in collaboration with the Royal Horticultural Society.

International Commission on Illumination C.I.E./USA: ISO 15469:2004/CIE S 011/E:2003, Spatial distribution of daylight – CIE standard general sky.

Rochester Institute of Technology: Munsell Color Science Laboratory; website: <http://mcs.l.rit.edu>.

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Comments from Subgroup (Andrea Menne):

<sup>a</sup> This could be put to the second char. as well. I prefer this as we are not able to have a “1” in char. 1 together with the RHS number in our computer system.

<sup>b</sup> What does this sentence mean?

<sup>c</sup> This whole paragraph should be deleted. I cannot see the difference between one-colored with different intensity and/or saturation and shaded.

[Annex I follows]

## ANNEX I

## COLOR NAMES FOR THE RHS COLOUR CHART

**1. Introduction**

1.1 When using the RHS Colour Chart, the variety description should contain both the RHS Colour Chart reference number and a name for the color. The purpose of this document is to harmonize color names for variety descriptions.

1.2 The RHS Colour Chart contains up to 884 different colors, which are divided into 23 “groups” to name the colors. However, for UPOV purposes, this initial grouping seemed unable to name the colors in variety descriptions in a sufficiently precise way. Therefore, UPOV has identified 50 color “groups” which are presented in this document. It is important to note that these color “groups” were not created for the purpose of grouping varieties for DUS trials and should not be used for that purpose.

1.3 The names used for the 50 UPOV Color Groups consist of either the [pure color] / [color hue] (e.g. yellow, orange, red), a combination of two [pure colors] / [color hues] (e.g. yellow orange, orange pink, purple red), or a combination of the [pure color(s)] / [color hue(s)] with “light” or “dark” (e.g. light yellow, dark pink red).

1.4 The color names in this document can be used with different editions of the RHS Colour Chart. The 1986 version of the RHS Colour Chart was used for the initial grouping and naming. In the 1995 edition no new charts were added. The additional charts in the 2001 edition (marked with “N”) have been integrated into the existing groups.

**2. Example for the use of the UPOV Color Names in a variety description**

2.1 If in Test Guidelines a characteristic is described by using the RHS Colour Chart, it is not obvious which color the plant part has, because it is only asked to indicate the RHS Colour Chart reference number, e.g.

*Flower: main color of upper side    RHS Colour Chart (indicate reference number)*

2.2 For the variety description, it is useful to translate the RHS Colour Chart number into a color name and to fill this name into the column “state of expression”. The color name can be found in the appendix to this document, in which the RHS Colors are listed according to the UPOV Color Group to which they belong: e.g. RHS 46C belongs to group 21 “red”, RHS N 74B belongs to group 27 “purple” and RHS N 57A belongs to group 23 “purple red”.

*Example:*

2.3 Part of a variety description for New Guinea Impatiens (TG/196/1)

| No. | Characteristic   | State of expression   |           | Note |
|-----|--|-----------------------|-----------|------|
| 20  | Flower: main colour of upper side  | red                   | RHS 46C   |      |
| 21  | <u>Varieties with bi- or multicoloured flowers only:</u><br>Flower: secondary colour of upper side   | purple                | RHS N 74B |      |
| 22  | <u>Varieties with bi- or multicoloured flowers only:</u><br>Flower: distribution of secondary colour | mainly on upper petal |           | 1    |
| 23  | Flower: eye zone   | present               |           | 9    |
| 24  | Flower: size of eye zone   | large                 |           | 7    |
| 25  | Flower: main colour of eye zone  | purple red            | RHS N 57A |      |

### 3. UPOV Color Groups

3.1 The 50 UPOV Color Groups are as follows:

| UPOV<br>Group No. | English             | français | deutsch         | español |
|-------------------|---------------------|----------|-----------------|---------|
| 1                 | white               |          | weiss           |         |
| 2                 | light green         |          | hellgrün        |         |
| 3                 | medium green        |          | mittelgrün      |         |
| 4                 | dark green          |          | dunkelgrün      |         |
| 5                 | yellow green        |          | gelbgrün        |         |
| 6                 | grey green          |          | graugrün        |         |
| 7                 | light blue green    |          | hellblaugrün    |         |
| 8                 | blue green          |          | blaugrün        |         |
| 9                 | brown green         |          | braungrün       |         |
| 10                | light yellow        |          | hellgelb        |         |
| 11                | yellow              |          | gelb            |         |
| 12                | light yellow orange |          | hellgelborange  |         |
| 13                | yellow orange       |          | gelborange      |         |
| 14                | orange              |          | orange          |         |
| 15                | orange pink         |          | orangerosa      |         |
| 16                | light red pink      |          | hellrotrosa     |         |
| 17                | red pink            |          | rotrosa         |         |
| 18                | light blue pink     |          | hellblaurosa    |         |
| 19                | blue pink           |          | blaurosa        |         |
| 20                | orange red          |          | orangerot       |         |
| 21                | red                 |          | rot             |         |
| 22                | dark pink red       |          | dunkelrosarot   |         |
| 23                | purple red          |          | purpurrot       |         |
| 24                | dark purple red     |          | dunkelpurpurrot |         |
| 25                | brown red           |          | braunrot        |         |
| 26                | brown purple        |          | braunpurpur     |         |
| 27                | purple              |          | purpur          |         |
| 28                | violet              |          | violett         |         |
| 29                | dark violet         |          | dunkelviolett   |         |
| 30                | light blue violet   |          | hellblauviolett |         |
| 31                | blue violet         |          | blauviolett     |         |
| 32                | light violet blue   |          | hellviolettblau |         |
| 33                | violet blue         |          | violettblau     |         |
| 34                | light blue          |          | hellblau        |         |
| 35                | medium blue         |          | mittelblau      |         |
| 36                | dark blue           |          | dunkelblau      |         |
| 37                | light green blue    |          | hellgrünblau    |         |
| 38                | green blue          |          | grünblau        |         |
| 39                | grey blue           |          | graublau        |         |
| 40                | light brown         |          | hellbraun       |         |
| 41                | medium brown        |          | mittelbraun     |         |
| 42                | dark brown          |          | dunkelbraun     |         |
| 43                | light yellow brown  |          | hellgelbbraun   |         |
| 44                | yellow brown        |          | gelbbraun       |         |
| 45                | orange brown        |          | orangebraun     |         |
| 46                | grey brown          |          | graubraun       |         |
| 47                | green brown         |          | grünbraun       |         |
| 48                | grey                |          | grau            |         |
| 49                | green grey          |          | grüngrau        |         |
| 50                | black               |          | schwarz         |         |

3.2 The appendices to this document allocate the colors in the RHS Colour Chart to the appropriate UPOV Color Groups as follows:

Appendix I: Allocation of UPOV Color Groups for each RHS Color in  
RHS Reference order

Appendix II: RHS Colors contained in each UPOV Color Group

[Appendices follow]

## APPENDIX I TO ANNEX I

**Appendix I:****Allocation of UPOV Color Groups for each RHS Color in RHS Reference order**

RHS COLORS (RHS COLOUR CHART, EDITIONS 1986, 1995 AND 2001)  
BY UPOV COLOR GROUPS

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b> | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 11                        | 001A           | yellow         |                 | gelb           |                |
| 5                         | 001B           | yellow green   |                 | gelbgrün       |                |
| 5                         | 001C           | yellow green   |                 | gelbgrün       |                |
| 5                         | 001D           | yellow green   |                 | gelbgrün       |                |
| 11                        | 002A           | yellow         |                 | gelb           |                |
| 11                        | 002B           | yellow         |                 | gelb           |                |
| 5                         | 002C           | yellow green   |                 | gelbgrün       |                |
| 5                         | 002D           | yellow green   |                 | gelbgrün       |                |
| 11                        | 003A           | yellow         |                 | gelb           |                |
| 11                        | 003B           | yellow         |                 | gelb           |                |
| 11                        | 003C           | yellow         |                 | gelb           |                |
| 5                         | 003D           | yellow green   |                 | gelbgrün       |                |
| 11                        | 004A           | yellow         |                 | gelb           |                |
| 11                        | 004B           | yellow         |                 | gelb           |                |
| 5                         | 004C           | yellow green   |                 | gelbgrün       |                |
| 10                        | 004D           | light yellow   |                 | hellgelb       |                |
| 11                        | 005A           | yellow         |                 | gelb           |                |
| 11                        | 005B           | yellow         |                 | gelb           |                |
| 11                        | 005C           | yellow         |                 | gelb           |                |
| 10                        | 005D           | light yellow   |                 | hellgelb       |                |
| 11                        | 006A           | yellow         |                 | gelb           |                |
| 11                        | 006B           | yellow         |                 | gelb           |                |
| 11                        | 006C           | yellow         |                 | gelb           |                |
| 10                        | 006D           | light yellow   |                 | hellgelb       |                |
| 11                        | 007A           | yellow         |                 | gelb           |                |
| 11                        | 007B           | yellow         |                 | gelb           |                |
| 11                        | 007C           | yellow         |                 | gelb           |                |
| 11                        | 007D           | yellow         |                 | gelb           |                |
| 11                        | 008A           | yellow         |                 | gelb           |                |
| 10                        | 008B           | light yellow   |                 | hellgelb       |                |
| 10                        | 008C           | light yellow   |                 | hellgelb       |                |
| 10                        | 008D           | light yellow   |                 | hellgelb       |                |
| 11                        | 009A           | yellow         |                 | gelb           |                |
| 11                        | 009B           | yellow         |                 | gelb           |                |
| 10                        | 009C           | light yellow   |                 | hellgelb       |                |
| 10                        | 009D           | light yellow   |                 | hellgelb       |                |
| 10                        | 010A           | light yellow   |                 | hellgelb       |                |
| 10                        | 010B           | light yellow   |                 | hellgelb       |                |
| 10                        | 010C           | light yellow   |                 | hellgelb       |                |
| 10                        | 010D           | light yellow   |                 | hellgelb       |                |
| 13                        | 011A           | yellow orange  |                 | gelborange     |                |
| 10                        | 011B           | light yellow   |                 | hellgelb       |                |



| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>      | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|---------------------|-----------------|----------------|----------------|
| 10                        | 011C           | light yellow        |                 | hellgelb       |                |
| 12                        | 011D           | light yellow orange |                 | hellgelborange |                |
| 11                        | 012A           | yellow              |                 | gelb           |                |
| 11                        | 012B           | yellow              |                 | gelb           |                |
| 10                        | 012C           | light yellow        |                 | hellgelb       |                |
| 10                        | 012D           | light yellow        |                 | hellgelb       |                |
| 13                        | 013A           | yellow orange       |                 | gelborange     |                |
| 13                        | 013B           | yellow orange       |                 | gelborange     |                |
| 13                        | 013C           | yellow orange       |                 | gelborange     |                |
| 10                        | 013D           | light yellow        |                 | hellgelb       |                |
| 13                        | 014A           | yellow orange       |                 | gelborange     |                |
| 13                        | 014B           | yellow orange       |                 | gelborange     |                |
| 13                        | 014C           | yellow orange       |                 | gelborange     |                |
| 10                        | 014D           | light yellow        |                 | hellgelb       |                |
| 13                        | 015A           | yellow orange       |                 | gelborange     |                |
| 13                        | 015B           | yellow orange       |                 | gelborange     |                |
| 13                        | 015C           | yellow orange       |                 | gelborange     |                |
| 10                        | 015D           | light yellow        |                 | hellgelb       |                |
| 13                        | 016A           | yellow orange       |                 | gelborange     |                |
| 13                        | 016B           | yellow orange       |                 | gelborange     |                |
| 13                        | 016C           | yellow orange       |                 | gelborange     |                |
| 10                        | 016D           | light yellow        |                 | hellgelb       |                |
| 13                        | 017A           | yellow orange       |                 | gelborange     |                |
| 13                        | 017B           | yellow orange       |                 | gelborange     |                |
| 13                        | 017C           | yellow orange       |                 | gelborange     |                |
| 13                        | 017D           | yellow orange       |                 | gelborange     |                |
| 13                        | 018A           | yellow orange       |                 | gelborange     |                |
| 12                        | 018B           | light yellow orange |                 | hellgelborange |                |
| 12                        | 018C           | light yellow orange |                 | hellgelborange |                |
| 12                        | 018D           | light yellow orange |                 | hellgelborange |                |
| 13                        | 019A           | yellow orange       |                 | gelborange     |                |
| 12                        | 019B           | light yellow orange |                 | hellgelborange |                |
| 12                        | 019C           | light yellow orange |                 | hellgelborange |                |
| 12                        | 019D           | light yellow orange |                 | hellgelborange |                |
| 13                        | 020A           | yellow orange       |                 | gelborange     |                |
| 13                        | 020B           | yellow orange       |                 | gelborange     |                |
| 12                        | 020C           | light yellow orange |                 | hellgelborange |                |
| 12                        | 020D           | light yellow orange |                 | hellgelborange |                |
| 13                        | 021A           | yellow orange       |                 | gelborange     |                |
| 13                        | 021B           | yellow orange       |                 | gelborange     |                |
| 13                        | 021C           | yellow orange       |                 | gelborange     |                |
| 12                        | 021D           | light yellow orange |                 | hellgelborange |                |
| 13                        | 022A           | yellow orange       |                 | gelborange     |                |
| 12                        | 022B           | light yellow orange |                 | hellgelborange |                |
| 12                        | 022C           | light yellow orange |                 | hellgelborange |                |
| 12                        | 022D           | light yellow orange |                 | hellgelborange |                |
| 13                        | 023A           | yellow orange       |                 | gelborange     |                |
| 13                        | 023B           | yellow orange       |                 | gelborange     |                |
| 12                        | 023C           | light yellow orange |                 | hellgelborange |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>      | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|---------------------|-----------------|----------------|----------------|
| 12                        | 023D           | light yellow orange |                 | hellgelborange |                |
| 14                        | 024A           | orange              |                 | orange         |                |
| 14                        | 024B           | orange              |                 | orange         |                |
| 14                        | 024C           | orange              |                 | orange         |                |
| 14                        | 024D           | orange              |                 | orange         |                |
| 14                        | 025A           | orange              |                 | orange         |                |
| 14                        | 025B           | orange              |                 | orange         |                |
| 14                        | 025C           | orange              |                 | orange         |                |
| 14                        | 025D           | orange              |                 | orange         |                |
| 20                        | N 025A         | orange red          |                 | orangerot      |                |
| 14                        | N 025B         | orange              |                 | orange         |                |
| 14                        | N 025C         | orange              |                 | orange         |                |
| 13                        | N 025D         | yellow orange       |                 | gelborange     |                |
| 14                        | 026A           | orange              |                 | orange         |                |
| 14                        | 026B           | orange              |                 | orange         |                |
| 14                        | 026C           | orange              |                 | orange         |                |
| 14                        | 026D           | orange              |                 | orange         |                |
| 15                        | 027A           | orange pink         |                 | orangerosa     |                |
| 15                        | 027B           | orange pink         |                 | orangerosa     |                |
| 15                        | 027C           | orange pink         |                 | orangerosa     |                |
| 15                        | 027D           | orange pink         |                 | orangerosa     |                |
| 20                        | 028A           | orange red          |                 | orangerot      |                |
| 14                        | 028B           | orange              |                 | orange         |                |
| 14                        | 028C           | orange              |                 | orange         |                |
| 14                        | 028D           | orange              |                 | orange         |                |
| 14                        | 029A           | orange              |                 | orange         |                |
| 14                        | 029B           | orange              |                 | orange         |                |
| 15                        | 029C           | orange pink         |                 | orangerosa     |                |
| 15                        | 029D           | orange pink         |                 | orangerosa     |                |
| 20                        | 030A           | orange red          |                 | orangerot      |                |
| 20                        | 030B           | orange red          |                 | orangerot      |                |
| 20                        | 030C           | orange red          |                 | orangerot      |                |
| 14                        | 030D           | orange              |                 | orange         |                |
| 21                        | N 030A         | red                 |                 | rot            |                |
| 20                        | N 030B         | orange red          |                 | orangerot      |                |
| 20                        | N 030C         | orange red          |                 | orangerot      |                |
| 14                        | N 030D         | orange              |                 | orange         |                |
| 20                        | 031A           | orange red          |                 | orangerot      |                |
| 45                        | 031B           | orange brown        |                 | orangebraun    |                |
| 45                        | 031C           | orange brown        |                 | orangebraun    |                |
| 15                        | 031D           | orange pink         |                 | orangerosa     |                |
| 20                        | 032A           | orange red          |                 | orangerot      |                |
| 20                        | 032B           | orange red          |                 | orangerot      |                |
| 45                        | 032C           | orange brown        |                 | orangebraun    |                |
| 15                        | 032D           | orange pink         |                 | orangerosa     |                |
| 21                        | 033A           | red                 |                 | rot            |                |
| 20                        | 033B           | orange red          |                 | orangerot      |                |
| 45                        | 033C           | orange brown        |                 | orangebraun    |                |
| 15                        | 033D           | orange pink         |                 | orangerosa     |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>  | <b>français</b> | <b>deutsch</b>  | <b>español</b> |
|---------------------------|----------------|-----------------|-----------------|-----------------|----------------|
| 21                        | 034A           | red             |                 | rot             |                |
| 45                        | 034B           | orange brown    |                 | orangebraun     |                |
| 45                        | 034C           | orange brown    |                 | orangebraun     |                |
| 45                        | 034D           | orange brown    |                 | orangebraun     |                |
| 24                        | N 034A         | dark purple red |                 | dunkelpurpurrot |                |
| 21                        | N 034B         | red             |                 | rot             |                |
| 22                        | N 034C         | dark pink red   |                 | dunkelrosarot   |                |
| 45                        | N 034D         | orange brown    |                 | orangebraun     |                |
| 45                        | 035A           | orange brown    |                 | orangebraun     |                |
| 20                        | 035B           | orange red      |                 | orangerot       |                |
| 15                        | 035C           | orange pink     |                 | orangerosa      |                |
| 16                        | 035D           | light red pink  |                 | hellrotrosa     |                |
| 16                        | 036A           | light red pink  |                 | hellrotrosa     |                |
| 16                        | 036B           | light red pink  |                 | hellrotrosa     |                |
| 16                        | 036C           | light red pink  |                 | hellrotrosa     |                |
| 16                        | 036D           | light red pink  |                 | hellrotrosa     |                |
| 15                        | 037A           | orange pink     |                 | orangerosa      |                |
| 15                        | 037B           | orange pink     |                 | orangerosa      |                |
| 16                        | 037C           | light red pink  |                 | hellrotrosa     |                |
| 16                        | 037D           | light red pink  |                 | hellrotrosa     |                |
| 16                        | 038A           | light red pink  |                 | hellrotrosa     |                |
| 16                        | 038B           | light red pink  |                 | hellrotrosa     |                |
| 16                        | 038C           | light red pink  |                 | hellrotrosa     |                |
| 16                        | 038D           | light red pink  |                 | hellrotrosa     |                |
| 20                        | 039A           | orange red      |                 | orangerot       |                |
| 20                        | 039B           | orange red      |                 | orangerot       |                |
| 16                        | 039C           | light red pink  |                 | hellrotrosa     |                |
| 16                        | 039D           | light red pink  |                 | hellrotrosa     |                |
| 21                        | 040A           | red             |                 | rot             |                |
| 21                        | 040B           | red             |                 | rot             |                |
| 20                        | 040C           | orange red      |                 | orangerot       |                |
| 20                        | 040D           | orange red      |                 | orangerot       |                |
| 21                        | 041A           | red             |                 | rot             |                |
| 20                        | 041B           | orange red      |                 | orangerot       |                |
| 20                        | 041C           | orange red      |                 | orangerot       |                |
| 16                        | 041D           | light red pink  |                 | hellrotrosa     |                |
| 21                        | 042A           | red             |                 | rot             |                |
| 21                        | 042B           | red             |                 | rot             |                |
| 21                        | 042C           | red             |                 | rot             |                |
| 20                        | 042D           | orange red      |                 | orangerot       |                |
| 21                        | 043A           | red             |                 | rot             |                |
| 21                        | 043B           | red             |                 | rot             |                |
| 17                        | 043C           | red pink        |                 | rotrosa         |                |
| 17                        | 043D           | red pink        |                 | rotrosa         |                |
| 21                        | 044A           | red             |                 | rot             |                |
| 21                        | 044B           | red             |                 | rot             |                |
| 21                        | 044C           | red             |                 | rot             |                |
| 20                        | 044D           | orange red      |                 | orangerot       |                |
| 21                        | 045A           | red             |                 | rot             |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>  | <b>français</b> | <b>deutsch</b>  | <b>español</b> |
|---------------------------|----------------|-----------------|-----------------|-----------------|----------------|
| 21                        | 045B           | red             |                 | rot             |                |
| 21                        | 045C           | red             |                 | rot             |                |
| 22                        | 045D           | dark pink red   |                 | dunkelrosarot   |                |
| 24                        | 046A           | dark purple red |                 | dunkelpurpurrot |                |
| 21                        | 046B           | red             |                 | rot             |                |
| 21                        | 046C           | red             |                 | rot             |                |
| 22                        | 046D           | dark pink red   |                 | dunkelrosarot   |                |
| 21                        | 047A           | red             |                 | rot             |                |
| 21                        | 047B           | red             |                 | rot             |                |
| 22                        | 047C           | dark pink red   |                 | dunkelrosarot   |                |
| 17                        | 047D           | red pink        |                 | rotrosa         |                |
| 22                        | 048A           | dark pink red   |                 | dunkelrosarot   |                |
| 17                        | 048B           | red pink        |                 | rotrosa         |                |
| 17                        | 048C           | red pink        |                 | rotrosa         |                |
| 17                        | 048D           | red pink        |                 | rotrosa         |                |
| 17                        | 049A           | red pink        |                 | rotrosa         |                |
| 16                        | 049B           | light red pink  |                 | hellrotrosa     |                |
| 16                        | 049C           | light red pink  |                 | hellrotrosa     |                |
| 16                        | 049D           | light red pink  |                 | hellrotrosa     |                |
| 21                        | 050A           | red             |                 | rot             |                |
| 22                        | 050B           | dark pink red   |                 | dunkelrosarot   |                |
| 17                        | 050C           | red pink        |                 | rotrosa         |                |
| 16                        | 050D           | light red pink  |                 | hellrotrosa     |                |
| 22                        | 051A           | dark pink red   |                 | dunkelrosarot   |                |
| 22                        | 051B           | dark pink red   |                 | dunkelrosarot   |                |
| 17                        | 051C           | red pink        |                 | rotrosa         |                |
| 17                        | 051D           | red pink        |                 | rotrosa         |                |
| 22                        | 052A           | dark pink red   |                 | dunkelrosarot   |                |
| 17                        | 052B           | red pink        |                 | rotrosa         |                |
| 17                        | 052C           | red pink        |                 | rotrosa         |                |
| 17                        | 052D           | red pink        |                 | rotrosa         |                |
| 24                        | 053A           | dark purple red |                 | dunkelpurpurrot |                |
| 24                        | 053B           | dark purple red |                 | dunkelpurpurrot |                |
| 22                        | 053C           | dark pink red   |                 | dunkelrosarot   |                |
| 22                        | 053D           | dark pink red   |                 | dunkelrosarot   |                |
| 23                        | 054A           | purple red      |                 | purpurrot       |                |
| 23                        | 054B           | purple red      |                 | purpurrot       |                |
| 23                        | 054C           | purple red      |                 | purpurrot       |                |
| 18                        | 054D           | light blue pink |                 | hellblaurosa    |                |
| 23                        | 055A           | purple red      |                 | purpurrot       |                |
| 23                        | 055B           | purple red      |                 | purpurrot       |                |
| 18                        | 055C           | light blue pink |                 | hellblaurosa    |                |
| 18                        | 055D           | light blue pink |                 | hellblaurosa    |                |
| 18                        | 056A           | light blue pink |                 | hellblaurosa    |                |
| 18                        | 056B           | light blue pink |                 | hellblaurosa    |                |
| 18                        | 056C           | light blue pink |                 | hellblaurosa    |                |
| 18                        | 056D           | light blue pink |                 | hellblaurosa    |                |
| 23                        | 057A           | purple red      |                 | purpurrot       |                |
| 23                        | 057B           | purple red      |                 | purpurrot       |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>  | <b>français</b> | <b>deutsch</b>  | <b>español</b> |
|---------------------------|----------------|-----------------|-----------------|-----------------|----------------|
| 23                        | 057C           | purple red      |                 | purpurrot       |                |
| 23                        | 057D           | purple red      |                 | purpurrot       |                |
| 23                        | N 057A         | purple red      |                 | purpurrot       |                |
| 23                        | N 057B         | purple red      |                 | purpurrot       |                |
| 23                        | N 057C         | purple red      |                 | purpurrot       |                |
| 23                        | N 057D         | purple red      |                 | purpurrot       |                |
| 27                        | 058A           | purple          |                 | purpur          |                |
| 23                        | 058B           | purple red      |                 | purpurrot       |                |
| 23                        | 058C           | purple red      |                 | purpurrot       |                |
| 23                        | 058D           | purple red      |                 | purpurrot       |                |
| 24                        | 059A           | dark purple red |                 | dunkelpurpurrot |                |
| 24                        | 059B           | dark purple red |                 | dunkelpurpurrot |                |
| 27                        | 059C           | purple          |                 | purpur          |                |
| 23                        | 059D           | purple red      |                 | purpurrot       |                |
| 24                        | 060A           | dark purple red |                 | dunkelpurpurrot |                |
| 24                        | 060B           | dark purple red |                 | dunkelpurpurrot |                |
| 27                        | 060C           | purple          |                 | purpur          |                |
| 23                        | 060D           | purple red      |                 | purpurrot       |                |
| 27                        | 061A           | purple          |                 | purpur          |                |
| 27                        | 061B           | purple          |                 | purpur          |                |
| 23                        | 061C           | purple red      |                 | purpurrot       |                |
| 23                        | 061D           | purple red      |                 | purpurrot       |                |
| 19                        | 062A           | blue pink       |                 | blaurosa        |                |
| 18                        | 062B           | light blue pink |                 | hellblaurosa    |                |
| 18                        | 062C           | light blue pink |                 | hellblaurosa    |                |
| 18                        | 062D           | light blue pink |                 | hellblaurosa    |                |
| 23                        | 063A           | purple red      |                 | purpurrot       |                |
| 19                        | 063B           | blue pink       |                 | blaurosa        |                |
| 19                        | 063C           | blue pink       |                 | blaurosa        |                |
| 18                        | 063D           | light blue pink |                 | hellblaurosa    |                |
| 27                        | 064A           | purple          |                 | purpur          |                |
| 27                        | 064B           | purple          |                 | purpur          |                |
| 19                        | 064C           | blue pink       |                 | blaurosa        |                |
| 19                        | 064D           | blue pink       |                 | blaurosa        |                |
| 19                        | 065A           | blue pink       |                 | blaurosa        |                |
| 18                        | 065B           | light blue pink |                 | hellblaurosa    |                |
| 18                        | 065C           | light blue pink |                 | hellblaurosa    |                |
| 18                        | 065D           | light blue pink |                 | hellblaurosa    |                |
| 23                        | 066A           | purple red      |                 | purpurrot       |                |
| 23                        | 066B           | purple red      |                 | purpurrot       |                |
| 19                        | 066C           | blue pink       |                 | blaurosa        |                |
| 19                        | 066D           | blue pink       |                 | blaurosa        |                |
| 23                        | N 066A         | purple red      |                 | purpurrot       |                |
| 23                        | N 066B         | purple red      |                 | purpurrot       |                |
| 19                        | N 066C         | blue pink       |                 | blaurosa        |                |
| 19                        | N 066D         | blue pink       |                 | blaurosa        |                |
| 27                        | 067A           | purple          |                 | purpur          |                |
| 19                        | 067B           | blue pink       |                 | blaurosa        |                |
| 19                        | 067C           | blue pink       |                 | blaurosa        |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>    | <b>français</b> | <b>deutsch</b>  | <b>español</b> |
|---------------------------|----------------|-------------------|-----------------|-----------------|----------------|
| 19                        | 067D           | blue pink         |                 | blaurosa        |                |
| 19                        | 068A           | blue pink         |                 | blaurosa        |                |
| 19                        | 068B           | blue pink         |                 | blaurosa        |                |
| 19                        | 068C           | blue pink         |                 | blaurosa        |                |
| 18                        | 068D           | light blue pink   |                 | hellblaurosa    |                |
| 18                        | 069A           | light blue pink   |                 | hellblaurosa    |                |
| 18                        | 069B           | light blue pink   |                 | hellblaurosa    |                |
| 30                        | 069C           | light blue violet |                 | hellblauviolett |                |
| 30                        | 069D           | light blue violet |                 | hellblauviolett |                |
| 27                        | 070A           | purple            |                 | purpur          |                |
| 27                        | 070B           | purple            |                 | purpur          |                |
| 19                        | 070C           | blue pink         |                 | blaurosa        |                |
| 18                        | 070D           | light blue pink   |                 | hellblaurosa    |                |
| 27                        | 071A           | purple            |                 | purpur          |                |
| 27                        | 071B           | purple            |                 | purpur          |                |
| 27                        | 071C           | purple            |                 | purpur          |                |
| 19                        | 071D           | blue pink         |                 | blaurosa        |                |
| 27                        | 072A           | purple            |                 | purpur          |                |
| 27                        | 072B           | purple            |                 | purpur          |                |
| 19                        | 072C           | blue pink         |                 | blaurosa        |                |
| 19                        | 072D           | blue pink         |                 | blaurosa        |                |
| 19                        | 073A           | blue pink         |                 | blaurosa        |                |
| 19                        | 073B           | blue pink         |                 | blaurosa        |                |
| 18                        | 073C           | light blue pink   |                 | hellblaurosa    |                |
| 18                        | 073D           | light blue pink   |                 | hellblaurosa    |                |
| 27                        | 074A           | purple            |                 | purpur          |                |
| 27                        | 074B           | purple            |                 | purpur          |                |
| 27                        | 074C           | purple            |                 | purpur          |                |
| 19                        | 074D           | blue pink         |                 | blaurosa        |                |
| 27                        | N 074A         | purple            |                 | purpur          |                |
| 27                        | N 074B         | purple            |                 | purpur          |                |
| 19                        | N 074C         | blue pink         |                 | blaurosa        |                |
| 19                        | N 074D         | blue pink         |                 | blaurosa        |                |
| 28                        | 075A           | violet            |                 | violett         |                |
| 28                        | 075B           | violet            |                 | violett         |                |
| 28                        | 075C           | violet            |                 | violett         |                |
| 28                        | 075D           | violet            |                 | violett         |                |
| 30                        | 076A           | light blue violet |                 | hellblauviolett |                |
| 30                        | 076B           | light blue violet |                 | hellblauviolett |                |
| 30                        | 076C           | light blue violet |                 | hellblauviolett |                |
| 30                        | 076D           | light blue violet |                 | hellblauviolett |                |
| 28                        | 077A           | violet            |                 | violett         |                |
| 28                        | 077B           | violet            |                 | violett         |                |
| 28                        | 077C           | violet            |                 | violett         |                |
| 28                        | 077D           | violet            |                 | violett         |                |
| 26                        | N 077A         | brown purple      |                 | braunpurpur     |                |
| 28                        | N 077B         | violet            |                 | violett         |                |
| 29                        | N 077C         | dark violet       |                 | dunkelviolet    |                |
| 28                        | N 077D         | violet            |                 | violett         |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>    | <b>français</b> | <b>deutsch</b>  | <b>español</b> |
|---------------------------|----------------|-------------------|-----------------|-----------------|----------------|
| 28                        | 078A           | violet            |                 | violett         |                |
| 28                        | 078B           | violet            |                 | violett         |                |
| 28                        | 078C           | violet            |                 | violett         |                |
| 28                        | 078D           | violet            |                 | violett         |                |
| 28                        | N 078A         | violet            |                 | violett         |                |
| 28                        | N 078B         | violet            |                 | violett         |                |
| 28                        | N 078C         | violet            |                 | violett         |                |
| 28                        | N 078D         | violet            |                 | violett         |                |
| 29                        | 079A           | dark violet       |                 | dunkelviolet    |                |
| 29                        | 079B           | dark violet       |                 | dunkelviolet    |                |
| 29                        | 079C           | dark violet       |                 | dunkelviolet    |                |
| 29                        | 079D           | dark violet       |                 | dunkelviolet    |                |
| 29                        | N 079A         | dark violet       |                 | dunkelviolet    |                |
| 29                        | N 079B         | dark violet       |                 | dunkelviolet    |                |
| 27                        | N 079C         | purple            |                 | purpur          |                |
| 28                        | N 079D         | violet            |                 | violett         |                |
| 28                        | 080A           | violet            |                 | violett         |                |
| 28                        | 080B           | violet            |                 | violett         |                |
| 28                        | 080C           | violet            |                 | violett         |                |
| 28                        | 080D           | violet            |                 | violett         |                |
| 28                        | N 080A         | violet            |                 | violett         |                |
| 28                        | N 080B         | violet            |                 | violett         |                |
| 28                        | N 080C         | violet            |                 | violett         |                |
| 28                        | N 080D         | violet            |                 | violett         |                |
| 28                        | 081A           | violet            |                 | violett         |                |
| 28                        | 081B           | violet            |                 | violett         |                |
| 28                        | 081C           | violet            |                 | violett         |                |
| 28                        | 081D           | violet            |                 | violett         |                |
| 28                        | N 081A         | violet            |                 | violett         |                |
| 28                        | N 081B         | violet            |                 | violett         |                |
| 28                        | N 081C         | violet            |                 | violett         |                |
| 28                        | N 081D         | violet            |                 | violett         |                |
| 28                        | 082A           | violet            |                 | violett         |                |
| 28                        | 082B           | violet            |                 | violett         |                |
| 28                        | 082C           | violet            |                 | violett         |                |
| 28                        | 082D           | violet            |                 | violett         |                |
| 28                        | N 082A         | violet            |                 | violett         |                |
| 28                        | N 082B         | violet            |                 | violett         |                |
| 28                        | N 082C         | violet            |                 | violett         |                |
| 28                        | N 082D         | violet            |                 | violett         |                |
| 29                        | 083A           | dark violet       |                 | dunkelviolet    |                |
| 29                        | 083B           | dark violet       |                 | dunkelviolet    |                |
| 31                        | 083C           | blue violet       |                 | blauviolett     |                |
| 31                        | 083D           | blue violet       |                 | blauviolett     |                |
| 28                        | 084A           | violet            |                 | violett         |                |
| 28                        | 084B           | violet            |                 | violett         |                |
| 30                        | 084C           | light blue violet |                 | hellblauviolett |                |
| 30                        | 084D           | light blue violet |                 | hellblauviolett |                |
| 30                        | 085A           | light blue violet |                 | hellblauviolett |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>    | <b>français</b> | <b>deutsch</b>  | <b>español</b> |
|---------------------------|----------------|-------------------|-----------------|-----------------|----------------|
| 30                        | 085B           | light blue violet |                 | hellblauviolett |                |
| 30                        | 085C           | light blue violet |                 | hellblauviolett |                |
| 30                        | 085D           | light blue violet |                 | hellblauviolett |                |
| 29                        | 086A           | dark violet       |                 | dunkelviolett   |                |
| 31                        | 086B           | blue violet       |                 | blauviolett     |                |
| 31                        | 086C           | blue violet       |                 | blauviolett     |                |
| 31                        | 086D           | blue violet       |                 | blauviolett     |                |
| 28                        | 087A           | violet            |                 | violett         |                |
| 28                        | 087B           | violet            |                 | violett         |                |
| 28                        | 087C           | violet            |                 | violett         |                |
| 28                        | 087D           | violet            |                 | violett         |                |
| 28                        | N 087A         | violet            |                 | violett         |                |
| 28                        | N 087B         | violet            |                 | violett         |                |
| 28                        | N 087C         | violet            |                 | violett         |                |
| 28                        | N 087D         | violet            |                 | violett         |                |
| 31                        | 088A           | blue violet       |                 | blauviolett     |                |
| 31                        | 088B           | blue violet       |                 | blauviolett     |                |
| 31                        | 088C           | blue violet       |                 | blauviolett     |                |
| 28                        | 088D           | violet            |                 | violett         |                |
| 31                        | N 088A         | blue violet       |                 | blauviolett     |                |
| 31                        | N 088B         | blue violet       |                 | blauviolett     |                |
| 31                        | N 088C         | blue violet       |                 | blauviolett     |                |
| 31                        | N 088D         | blue violet       |                 | blauviolett     |                |
| 33                        | 089A           | violet blue       |                 | violettblau     |                |
| 33                        | 089B           | violet blue       |                 | violettblau     |                |
| 31                        | 089C           | violet blue       |                 | blauviolett     |                |
| 31                        | 089D           | violet blue       |                 | blauviolett     |                |
| 33                        | N 089A         | violet blue       |                 | violettblau     |                |
| 33                        | N 089B         | violet blue       |                 | violettblau     |                |
| 31                        | N 089C         | blue violet       |                 | blauviolett     |                |
| 31                        | N 089D         | blue violet       |                 | blauviolett     |                |
| 31                        | 090A           | blue violet       |                 | blauviolett     |                |
| 31                        | 090B           | blue violet       |                 | blauviolett     |                |
| 31                        | 090C           | blue violet       |                 | blauviolett     |                |
| 31                        | 090D           | blue violet       |                 | blauviolett     |                |
| 33                        | 091A           | violet blue       |                 | violettblau     |                |
| 32                        | 091B           | light violet blue |                 | hellviolettblau |                |
| 32                        | 091C           | light violet blue |                 | hellviolettblau |                |
| 32                        | 091D           | light violet blue |                 | hellviolettblau |                |
| 33                        | 092A           | violet blue       |                 | violettblau     |                |
| 32                        | 092B           | light violet blue |                 | hellviolettblau |                |
| 32                        | 092C           | light violet blue |                 | hellviolettblau |                |
| 32                        | 092D           | light violet blue |                 | hellviolettblau |                |
| 29                        | N 092A         | dark violet       |                 | dunkelviolett   |                |
| 33                        | N 092B         | violet blue       |                 | violettblau     |                |
| 33                        | N 092C         | violet blue       |                 | violettblau     |                |
| 31                        | N 092D         | blue violet       |                 | blauviolett     |                |
| 33                        | 093A           | violet blue       |                 | violettblau     |                |
| 33                        | 093B           | violet blue       |                 | violettblau     |                |



| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>    | <b>français</b> | <b>deutsch</b>  | <b>español</b> |
|---------------------------|----------------|-------------------|-----------------|-----------------|----------------|
| 33                        | 093C           | violet blue       |                 | violettblau     |                |
| 32                        | 093D           | light violet blue |                 | hellviolettblau |                |
| 33                        | 094A           | violet blue       |                 | violettblau     |                |
| 33                        | 094B           | violet blue       |                 | violettblau     |                |
| 33                        | 094C           | violet blue       |                 | violettblau     |                |
| 32                        | 094D           | light violet blue |                 | hellviolettblau |                |
| 33                        | 095A           | violet blue       |                 | violettblau     |                |
| 33                        | 095B           | violet blue       |                 | violettblau     |                |
| 33                        | 095C           | violet blue       |                 | violettblau     |                |
| 32                        | 095D           | light violet blue |                 | hellviolettblau |                |
| 33                        | 096A           | violet blue       |                 | violettblau     |                |
| 33                        | 096B           | violet blue       |                 | violettblau     |                |
| 33                        | 096C           | violet blue       |                 | violettblau     |                |
| 33                        | 096D           | violet blue       |                 | violettblau     |                |
| 33                        | 097A           | violet blue       |                 | violettblau     |                |
| 32                        | 097B           | light violet blue |                 | hellviolettblau |                |
| 32                        | 097C           | light violet blue |                 | hellviolettblau |                |
| 32                        | 097D           | light violet blue |                 | hellviolettblau |                |
| 35                        | 098A           | blue              |                 | blau            |                |
| 35                        | 098B           | blue              |                 | blau            |                |
| 35                        | 098C           | blue              |                 | blau            |                |
| 35                        | 098D           | blue              |                 | blau            |                |
| 36                        | 099A           | dark blue         |                 | dunkelblau      |                |
| 36                        | 099B           | dark blue         |                 | dunkelblau      |                |
| 35                        | 099C           | blue              |                 | blau            |                |
| 35                        | 099D           | blue              |                 | blau            |                |
| 35                        | 100A           | blue              |                 | blau            |                |
| 35                        | 100B           | blue              |                 | blau            |                |
| 35                        | 100C           | blue              |                 | blau            |                |
| 32                        | 100D           | light violet blue |                 | hellviolettblau |                |
| 35                        | 101A           | blue              |                 | blau            |                |
| 35                        | 101B           | blue              |                 | blau            |                |
| 35                        | 101C           | blue              |                 | blau            |                |
| 34                        | 101D           | light blue        |                 | hellblau        |                |
| 36                        | 102A           | dark blue         |                 | dunkelblau      |                |
| 35                        | 102B           | blue              |                 | blau            |                |
| 35                        | 102C           | blue              |                 | blau            |                |
| 35                        | 102D           | blue              |                 | blau            |                |
| 36                        | 103A           | dark blue         |                 | dunkelblau      |                |
| 36                        | 103B           | dark blue         |                 | dunkelblau      |                |
| 36                        | 103C           | dark blue         |                 | dunkelblau      |                |
| 35                        | 103D           | blue              |                 | blau            |                |
| 35                        | 104A           | blue              |                 | blau            |                |
| 35                        | 104B           | blue              |                 | blau            |                |
| 35                        | 104C           | blue              |                 | blau            |                |
| 34                        | 104D           | light blue        |                 | hellblau        |                |
| 35                        | 105A           | blue              |                 | blau            |                |
| 35                        | 105B           | blue              |                 | blau            |                |
| 35                        | 105C           | blue              |                 | blau            |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>   | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|------------------|-----------------|----------------|----------------|
| 35                        | 105D           | blue             |                 | blau           |                |
| 35                        | 106A           | blue             |                 | blau           |                |
| 34                        | 106B           | light blue       |                 | hellblau       |                |
| 34                        | 106C           | light blue       |                 | hellblau       |                |
| 34                        | 106D           | light blue       |                 | hellblau       |                |
| 35                        | 107A           | blue             |                 | blau           |                |
| 35                        | 107B           | blue             |                 | blau           |                |
| 34                        | 107C           | light blue       |                 | hellblau       |                |
| 34                        | 107D           | light blue       |                 | hellblau       |                |
| 34                        | 108A           | light blue       |                 | hellblau       |                |
| 34                        | 108B           | light blue       |                 | hellblau       |                |
| 34                        | 108C           | light blue       |                 | hellblau       |                |
| 34                        | 108D           | light blue       |                 | hellblau       |                |
| 35                        | 109A           | blue             |                 | blau           |                |
| 35                        | 109B           | blue             |                 | blau           |                |
| 35                        | 109C           | blue             |                 | blau           |                |
| 34                        | 109D           | light blue       |                 | hellblau       |                |
| 35                        | N 109A         | blue             |                 | blau           |                |
| 35                        | N 109B         | blue             |                 | blau           |                |
| 35                        | N 109C         | blue             |                 | blau           |                |
| 34                        | N 109D         | light blue       |                 | hellblau       |                |
| 35                        | 110A           | blue             |                 | blau           |                |
| 35                        | 110B           | blue             |                 | blau           |                |
| 37                        | 110C           | light green blue |                 | hellgrünblau   |                |
| 37                        | 110D           | light green blue |                 | hellgrünblau   |                |
| 38                        | 111A           | green blue       |                 | grünblau       |                |
| 38                        | 111B           | green blue       |                 | grünblau       |                |
| 37                        | 111C           | light green blue |                 | hellgrünblau   |                |
| 37                        | 111D           | light green blue |                 | hellgrünblau   |                |
| 34                        | 112A           | light blue       |                 | hellblau       |                |
| 34                        | 112B           | light blue       |                 | hellblau       |                |
| 37                        | 112C           | light green blue |                 | hellgrünblau   |                |
| 37                        | 112D           | light green blue |                 | hellgrünblau   |                |
| 38                        | 113A           | green blue       |                 | grünblau       |                |
| 38                        | 113B           | green blue       |                 | grünblau       |                |
| 37                        | 113C           | light green blue |                 | hellgrünblau   |                |
| 37                        | 113D           | light green blue |                 | hellgrünblau   |                |
| 38                        | 114A           | green blue       |                 | grünblau       |                |
| 38                        | 114B           | green blue       |                 | grünblau       |                |
| 38                        | 114C           | green blue       |                 | grünblau       |                |
| 38                        | 114D           | green blue       |                 | grünblau       |                |
| 38                        | 115A           | green blue       |                 | grünblau       |                |
| 38                        | 115B           | green blue       |                 | grünblau       |                |
| 39                        | 115C           | grey blue        |                 | graublau       |                |
| 39                        | 115D           | grey blue        |                 | graublau       |                |
| 38                        | 116A           | green blue       |                 | grünblau       |                |
| 38                        | 116B           | green blue       |                 | grünblau       |                |
| 38                        | 116C           | green blue       |                 | grünblau       |                |
| 38                        | 116D           | green blue       |                 | grünblau       |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>   | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|------------------|-----------------|----------------|----------------|
| 37                        | 117A           | light green blue |                 | hellgrünblau   |                |
| 37                        | 117B           | light green blue |                 | hellgrünblau   |                |
| 37                        | 117C           | light green blue |                 | hellgrünblau   |                |
| 37                        | 117D           | light green blue |                 | hellgrünblau   |                |
| 38                        | 118A           | green blue       |                 | grünblau       |                |
| 38                        | 118B           | green blue       |                 | grünblau       |                |
| 37                        | 118C           | light green blue |                 | hellgrünblau   |                |
| 37                        | 118D           | light green blue |                 | hellgrünblau   |                |
| 38                        | 119A           | green blue       |                 | grünblau       |                |
| 39                        | 119B           | grey blue        |                 | graublau       |                |
| 39                        | 119C           | grey blue        |                 | graublau       |                |
| 37                        | 119D           | light green blue |                 | hellgrünblau   |                |
| 7                         | 120A           | light blue green |                 | hellblaugrün   |                |
| 7                         | 120B           | light blue green |                 | hellblaugrün   |                |
| 7                         | 120C           | light blue green |                 | hellblaugrün   |                |
| 37                        | 120D           | light green blue |                 | hellgrünblau   |                |
| 38                        | 121A           | green blue       |                 | grünblau       |                |
| 7                         | 121B           | light blue green |                 | hellblaugrün   |                |
| 37                        | 121C           | light green blue |                 | hellgrünblau   |                |
| 37                        | 121D           | light green blue |                 | hellgrünblau   |                |
| 39                        | 122A           | grey blue        |                 | graublau       |                |
| 39                        | 122B           | grey blue        |                 | graublau       |                |
| 39                        | 122C           | grey blue        |                 | graublau       |                |
| 37                        | 122D           | light green blue |                 | hellgrünblau   |                |
| 7                         | 123A           | light blue green |                 | hellblaugrün   |                |
| 7                         | 123B           | light blue green |                 | hellblaugrün   |                |
| 7                         | 123C           | light blue green |                 | hellblaugrün   |                |
| 7                         | 123D           | light blue green |                 | hellblaugrün   |                |
| 3                         | 124A           | green            |                 | grün           |                |
| 8                         | 124B           | blue green       |                 | blaugrün       |                |
| 7                         | 124C           | light blue green |                 | hellblaugrün   |                |
| 7                         | 124D           | light blue green |                 | hellblaugrün   |                |
| 3                         | 125A           | green            |                 | grün           |                |
| 3                         | 125B           | green            |                 | grün           |                |
| 8                         | 125C           | blue green       |                 | blaugrün       |                |
| 8                         | 125D           | blue green       |                 | blaugrün       |                |
| 6                         | 126A           | grey green       |                 | graugrün       |                |
| 6                         | 126B           | grey green       |                 | graugrün       |                |
| 6                         | 126C           | grey green       |                 | graugrün       |                |
| 8                         | 126D           | blue green       |                 | blaugrün       |                |
| 6                         | 127A           | grey green       |                 | graugrün       |                |
| 3                         | 127B           | green            |                 | grün           |                |
| 3                         | 127C           | green            |                 | grün           |                |
| 8                         | 127D           | blue green       |                 | blaugrün       |                |
| 3                         | 128A           | green            |                 | grün           |                |
| 8                         | 128B           | blue green       |                 | blaugrün       |                |
| 8                         | 128C           | blue green       |                 | blaugrün       |                |
| 8                         | 128D           | blue green       |                 | blaugrün       |                |
| 3                         | 129A           | green            |                 | grün           |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b> | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 8                         | 129B           | blue green     |                 | blaugrün       |                |
| 8                         | 129C           | blue green     |                 | blaugrün       |                |
| 8                         | 129D           | blue green     |                 | blaugrün       |                |
| 3                         | 130A           | green          |                 | grün           |                |
| 3                         | 130B           | green          |                 | grün           |                |
| 8                         | 130C           | blue green     |                 | blaugrün       |                |
| 8                         | 130D           | blue green     |                 | blaugrün       |                |
| 4                         | 131A           | dark green     |                 | dunkelgrün     |                |
| 4                         | 131B           | dark green     |                 | dunkelgrün     |                |
| 4                         | 131C           | dark green     |                 | dunkelgrün     |                |
| 3                         | 131D           | green          |                 | grün           |                |
| 4                         | 132A           | dark green     |                 | dunkelgrün     |                |
| 4                         | 132B           | dark green     |                 | dunkelgrün     |                |
| 3                         | 132C           | green          |                 | grün           |                |
| 3                         | 132D           | green          |                 | grün           |                |
| 4                         | 133A           | dark green     |                 | dunkelgrün     |                |
| 6                         | 133B           | grey green     |                 | graugrün       |                |
| 6                         | 133C           | grey green     |                 | graugrün       |                |
| 6                         | 133D           | grey green     |                 | graugrün       |                |
| 3                         | 134A           | green          |                 | grün           |                |
| 3                         | 134B           | green          |                 | grün           |                |
| 3                         | 134C           | green          |                 | grün           |                |
| 2                         | 134D           | light green    |                 | hellgrün       |                |
| 4                         | N 134A         | dark green     |                 | dunkelgrün     |                |
| 4                         | N 134B         | dark green     |                 | dunkelgrün     |                |
| 3                         | N 134C         | green          |                 | grün           |                |
| 3                         | N 134D         | green          |                 | grün           |                |
| 4                         | 135A           | dark green     |                 | dunkelgrün     |                |
| 4                         | 135B           | dark green     |                 | dunkelgrün     |                |
| 3                         | 135C           | green          |                 | grün           |                |
| 2                         | 135D           | light green    |                 | hellgrün       |                |
| 4                         | 136A           | dark green     |                 | dunkelgrün     |                |
| 4                         | 136B           | dark green     |                 | dunkelgrün     |                |
| 9                         | 136C           | brown green    |                 | braungrün      |                |
| 2                         | 136D           | light green    |                 | hellgrün       |                |
| 4                         | 137A           | dark green     |                 | dunkelgrün     |                |
| 9                         | 137B           | brown green    |                 | braungrün      |                |
| 9                         | 137C           | brown green    |                 | braungrün      |                |
| 9                         | 137D           | brown green    |                 | braungrün      |                |
| 9                         | 138A           | brown green    |                 | braungrün      |                |
| 9                         | 138B           | brown green    |                 | braungrün      |                |
| 2                         | 138C           | light green    |                 | hellgrün       |                |
| 2                         | 138D           | light green    |                 | hellgrün       |                |
| 4                         | N 138A         | dark green     |                 | dunkelgrün     |                |
| 9                         | N 138B         | brown green    |                 | braungrün      |                |
| 9                         | N 138C         | brown green    |                 | braungrün      |                |
| 9                         | N 138D         | brown green    |                 | braungrün      |                |
| 4                         | 139A           | dark green     |                 | dunkelgrün     |                |
| 9                         | 139B           | brown green    |                 | braungrün      |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b> | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 9                         | 139C           | brown green    |                 | braungrün      |                |
| 2                         | 139D           | light green    |                 | hellgrün       |                |
| 3                         | 140A           | green          |                 | grün           |                |
| 3                         | 140B           | green          |                 | grün           |                |
| 2                         | 140C           | light green    |                 | hellgrün       |                |
| 2                         | 140D           | light green    |                 | hellgrün       |                |
| 4                         | 141A           | dark green     |                 | dunkelgrün     |                |
| 4                         | 141B           | dark green     |                 | dunkelgrün     |                |
| 4                         | 141C           | dark green     |                 | dunkelgrün     |                |
| 2                         | 141D           | light green    |                 | hellgrün       |                |
| 3                         | 142A           | green          |                 | grün           |                |
| 2                         | 142B           | light green    |                 | hellgrün       |                |
| 2                         | 142C           | light green    |                 | hellgrün       |                |
| 2                         | 142D           | light green    |                 | hellgrün       |                |
| 4                         | 143A           | dark green     |                 | dunkelgrün     |                |
| 4                         | 143B           | dark green     |                 | dunkelgrün     |                |
| 4                         | 143C           | dark green     |                 | dunkelgrün     |                |
| 2                         | 143D           | light green    |                 | hellgrün       |                |
| 4                         | 144A           | dark green     |                 | dunkelgrün     |                |
| 2                         | 144B           | light green    |                 | hellgrün       |                |
| 2                         | 144C           | light green    |                 | hellgrün       |                |
| 2                         | 144D           | light green    |                 | hellgrün       |                |
| 2                         | N 144A         | light green    |                 | hellgrün       |                |
| 2                         | N 144B         | light green    |                 | hellgrün       |                |
| 2                         | N 144C         | light green    |                 | hellgrün       |                |
| 2                         | N 144D         | light green    |                 | hellgrün       |                |
| 2                         | 145A           | light green    |                 | hellgrün       |                |
| 2                         | 145B           | light green    |                 | hellgrün       |                |
| 2                         | 145C           | light green    |                 | hellgrün       |                |
| 2                         | 145D           | light green    |                 | hellgrün       |                |
| 9                         | 146A           | brown green    |                 | braungrün      |                |
| 9                         | 146B           | brown green    |                 | braungrün      |                |
| 9                         | 146C           | brown green    |                 | braungrün      |                |
| 9                         | 146D           | brown green    |                 | braungrün      |                |
| 4                         | 147A           | dark green     |                 | dunkelgrün     |                |
| 9                         | 147B           | brown green    |                 | braungrün      |                |
| 9                         | 147C           | brown green    |                 | braungrün      |                |
| 9                         | 147D           | brown green    |                 | braungrün      |                |
| 9                         | 148A           | brown green    |                 | braungrün      |                |
| 9                         | 148B           | brown green    |                 | braungrün      |                |
| 9                         | 148C           | brown green    |                 | braungrün      |                |
| 9                         | 148D           | brown green    |                 | braungrün      |                |
| 5                         | 149A           | yellow green   |                 | gelbgrün       |                |
| 2                         | 149B           | light green    |                 | hellgrün       |                |
| 2                         | 149C           | light green    |                 | hellgrün       |                |
| 2                         | 149D           | light green    |                 | hellgrün       |                |
| 5                         | 150A           | yellow green   |                 | gelbgrün       |                |
| 5                         | 150B           | yellow green   |                 | gelbgrün       |                |
| 5                         | 150C           | yellow green   |                 | gelbgrün       |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>     | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|--------------------|-----------------|----------------|----------------|
| 5                         | 150D           | yellow green       |                 | gelbgrün       |                |
| 47                        | 151A           | green brown        |                 | grünbraun      |                |
| 47                        | 151B           | green brown        |                 | grünbraun      |                |
| 47                        | 151C           | green brown        |                 | grünbraun      |                |
| 47                        | 151D           | green brown        |                 | grünbraun      |                |
| 47                        | 152A           | green brown        |                 | grünbraun      |                |
| 47                        | 152B           | green brown        |                 | grünbraun      |                |
| 47                        | 152C           | green brown        |                 | grünbraun      |                |
| 47                        | 152D           | green brown        |                 | grünbraun      |                |
| 47                        | 153A           | green brown        |                 | grünbraun      |                |
| 47                        | 153B           | green brown        |                 | grünbraun      |                |
| 47                        | 153C           | green brown        |                 | grünbraun      |                |
| 47                        | 153D           | green brown        |                 | grünbraun      |                |
| 5                         | 154A           | yellow green       |                 | gelbgrün       |                |
| 5                         | 154B           | yellow green       |                 | gelbgrün       |                |
| 5                         | 154C           | yellow green       |                 | gelbgrün       |                |
| 5                         | 154D           | yellow green       |                 | gelbgrün       |                |
| 1                         | 155A           | white              |                 | weiss          |                |
| 1                         | 155B           | white              |                 | weiss          |                |
| 1                         | 155C           | white              |                 | weiss          |                |
| 1                         | 155D           | white              |                 | weiss          |                |
| 1                         | N 155A         | white              |                 | weiss          |                |
| 1                         | N 155B         | white              |                 | weiss          |                |
| 1                         | N 155C         | white              |                 | weiss          |                |
| 1                         | N 155D         | white              |                 | weiss          |                |
| 48                        | 156A           | grey               |                 | grau           |                |
| 48                        | 156B           | grey               |                 | grau           |                |
| 48                        | 156C           | grey               |                 | grau           |                |
| 48                        | 156D           | grey               |                 | grau           |                |
| 48                        | 157A           | grey               |                 | grau           |                |
| 48                        | 157B           | grey               |                 | grau           |                |
| 48                        | 157C           | grey               |                 | grau           |                |
| 1                         | 157D           | white              |                 | weiss          |                |
| 43                        | 158A           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 158B           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 158C           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 158D           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 159A           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 159B           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 159C           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 159D           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 160A           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 160B           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 160C           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 160D           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 161A           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 161B           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 161C           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 161D           | light yellow brown |                 | hellgelbbraun  |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>     | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|--------------------|-----------------|----------------|----------------|
| 43                        | 162A           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 162B           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 162C           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 162D           | light yellow brown |                 | hellgelbbraun  |                |
| 44                        | 163A           | yellow brown       |                 | gelbbraun      |                |
| 43                        | 163B           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 163C           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 163D           | light yellow brown |                 | hellgelbbraun  |                |
| 45                        | N 163A         | orange brown       |                 | orangebraun    |                |
| 45                        | N 163B         | orange brown       |                 | orangebraun    |                |
| 44                        | N 163C         | yellow brown       |                 | gelbbraun      |                |
| 44                        | N 163D         | yellow brown       |                 | gelbbraun      |                |
| 44                        | 164A           | yellow brown       |                 | gelbbraun      |                |
| 44                        | 164B           | yellow brown       |                 | gelbbraun      |                |
| 44                        | 164C           | yellow brown       |                 | gelbbraun      |                |
| 43                        | 164D           | light yellow brown |                 | hellgelbbraun  |                |
| 41                        | 165A           | brown              |                 | braun          |                |
| 44                        | 165B           | yellow brown       |                 | gelbbraun      |                |
| 44                        | 165C           | yellow brown       |                 | gelbbraun      |                |
| 43                        | 165D           | light yellow brown |                 | hellgelbbraun  |                |
| 41                        | 166A           | brown              |                 | braun          |                |
| 41                        | 166B           | brown              |                 | braun          |                |
| 40                        | 166C           | light brown        |                 | hellbraun      |                |
| 40                        | 166D           | light brown        |                 | hellbraun      |                |
| 44                        | 167A           | yellow brown       |                 | gelbbraun      |                |
| 44                        | 167B           | yellow brown       |                 | gelbbraun      |                |
| 44                        | 167C           | yellow brown       |                 | gelbbraun      |                |
| 44                        | 167D           | yellow brown       |                 | gelbbraun      |                |
| 44                        | N 167A         | yellow brown       |                 | gelbbraun      |                |
| 44                        | N 167B         | yellow brown       |                 | gelbbraun      |                |
| 44                        | N 167C         | yellow brown       |                 | gelbbraun      |                |
| 44                        | N 167D         | yellow brown       |                 | gelbbraun      |                |
| 45                        | 168A           | orange brown       |                 | orangebraun    |                |
| 45                        | 168B           | orange brown       |                 | orangebraun    |                |
| 44                        | 168C           | yellow brown       |                 | gelbbraun      |                |
| 44                        | 168D           | yellow brown       |                 | gelbbraun      |                |
| 45                        | 169A           | orange brown       |                 | orangebraun    |                |
| 45                        | 169B           | orange brown       |                 | orangebraun    |                |
| 45                        | 169C           | orange brown       |                 | orangebraun    |                |
| 45                        | 169D           | orange brown       |                 | orangebraun    |                |
| 40                        | N 170A         | light brown        |                 | hellbraun      |                |
| 40                        | N 170B         | light brown        |                 | hellbraun      |                |
| 40                        | N 170C         | light brown        |                 | hellbraun      |                |
| 45                        | N 170D         | orange brown       |                 | orangebraun    |                |
| 45                        | 170A           | orange brown       |                 | orangebraun    |                |
| 45                        | 170B           | orange brown       |                 | orangebraun    |                |
| 45                        | 170C           | orange brown       |                 | orangebraun    |                |
| 45                        | 170D           | orange brown       |                 | orangebraun    |                |
| 41                        | 171A           | brown              |                 | braun          |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b> | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 45                        | 171B           | orange brown   |                 | orangebraun    |                |
| 45                        | 171C           | orange brown   |                 | orangebraun    |                |
| 45                        | 171D           | orange brown   |                 | orangebraun    |                |
| 41                        | 172A           | brown          |                 | braun          |                |
| 41                        | 172B           | brown          |                 | braun          |                |
| 45                        | 172C           | orange brown   |                 | orangebraun    |                |
| 45                        | 172D           | orange brown   |                 | orangebraun    |                |
| 45                        | N 172A         | orange brown   |                 | orangebraun    |                |
| 45                        | N 172B         | orange brown   |                 | orangebraun    |                |
| 45                        | N 172C         | orange brown   |                 | orangebraun    |                |
| 44                        | N 172D         | yellow brown   |                 | gelbbraun      |                |
| 41                        | 173A           | brown          |                 | braun          |                |
| 45                        | 173B           | orange brown   |                 | orangebraun    |                |
| 40                        | 173C           | light brown    |                 | hellbraun      |                |
| 40                        | 173D           | light brown    |                 | hellbraun      |                |
| 41                        | 174A           | brown          |                 | braun          |                |
| 40                        | 174B           | light brown    |                 | hellbraun      |                |
| 40                        | 174C           | light brown    |                 | hellbraun      |                |
| 40                        | 174D           | light brown    |                 | hellbraun      |                |
| 41                        | 175A           | brown          |                 | braun          |                |
| 41                        | 175B           | brown          |                 | braun          |                |
| 41                        | 175C           | brown          |                 | braun          |                |
| 41                        | 175D           | brown          |                 | braun          |                |
| 41                        | 176A           | brown          |                 | braun          |                |
| 41                        | 176B           | brown          |                 | braun          |                |
| 41                        | 176C           | brown          |                 | braun          |                |
| 40                        | 176D           | light brown    |                 | hellbraun      |                |
| 41                        | 177A           | brown          |                 | braun          |                |
| 41                        | 177B           | brown          |                 | braun          |                |
| 40                        | 177C           | light brown    |                 | hellbraun      |                |
| 40                        | 177D           | light brown    |                 | hellbraun      |                |
| 26                        | 178A           | brown purple   |                 | braunpurpur    |                |
| 26                        | 178B           | brown purple   |                 | braunpurpur    |                |
| 25                        | 178C           | brown red      |                 | braunrot       |                |
| 25                        | 178D           | brown red      |                 | braunrot       |                |
| 25                        | 179A           | brown red      |                 | braunrot       |                |
| 25                        | 179B           | brown red      |                 | braunrot       |                |
| 45                        | 179C           | orange brown   |                 | orangebraun    |                |
| 15                        | 179D           | orange pink    |                 | orangerosa     |                |
| 25                        | 180A           | brown red      |                 | braunrot       |                |
| 25                        | 180B           | brown red      |                 | braunrot       |                |
| 25                        | 180C           | brown red      |                 | braunrot       |                |
| 25                        | 180D           | brown red      |                 | braunrot       |                |
| 25                        | 181A           | brown red      |                 | braunrot       |                |
| 25                        | 181B           | brown red      |                 | braunrot       |                |
| 25                        | 181C           | brown red      |                 | braunrot       |                |
| 25                        | 181D           | brown red      |                 | braunrot       |                |
| 25                        | 182A           | brown red      |                 | braunrot       |                |
| 25                        | 182B           | brown red      |                 | braunrot       |                |



| UPOV<br>Group No. | RHS No. | English         | français | deutsch         | español |
|-------------------|---------|-----------------|----------|-----------------|---------|
| 25                | 182C    | brown red       |          | braunrot        |         |
| 25                | 182D    | brown red       |          | braunrot        |         |
| 26                | 183A    | brown purple    |          | braunpurpur     |         |
| 26                | 183B    | brown purple    |          | braunpurpur     |         |
| 26                | 183C    | brown purple    |          | braunpurpur     |         |
| 26                | 183D    | brown purple    |          | braunpurpur     |         |
| 26                | 184A    | brown purple    |          | braunpurpur     |         |
| 26                | 184B    | brown purple    |          | braunpurpur     |         |
| 26                | 184C    | brown purple    |          | braunpurpur     |         |
| 26                | 184D    | brown purple    |          | braunpurpur     |         |
| 24                | 185A    | dark purple red |          | dunkelpurpurrot |         |
| 26                | 185B    | brown purple    |          | braunpurpur     |         |
| 26                | 185C    | brown purple    |          | braunpurpur     |         |
| 26                | 185D    | brown purple    |          | braunpurpur     |         |
| 26                | 186A    | brown purple    |          | braunpurpur     |         |
| 26                | 186B    | brown purple    |          | braunpurpur     |         |
| 19                | 186C    | blue pink       |          | blaurosa        |         |
| 19                | 186D    | blue pink       |          | blaurosa        |         |
| 50                | N 186A  | black           |          | schwarz         |         |
| 50                | N 186B  | black           |          | schwarz         |         |
| 42                | N 186C  | dark brown      |          | dunkelbraun     |         |
| 24                | N 186D  | dark purple red |          | dunkelpurpurrot |         |
| 26                | 187A    | brown purple    |          | braunpurpur     |         |
| 24                | 187B    | dark purple red |          | dunkelpurpurrot |         |
| 24                | 187C    | dark purple red |          | dunkelpurpurrot |         |
| 24                | 187D    | dark purple red |          | dunkelpurpurrot |         |
| 50                | N 187A  | black           |          | schwarz         |         |
| 48                | N 187B  | grey            |          | grau            |         |
| 48                | N 187C  | grey            |          | grau            |         |
| 48                | N 187D  | grey            |          | grau            |         |
| 49                | 188A    | green grey      |          | grüngrau        |         |
| 49                | 188B    | green grey      |          | grüngrau        |         |
| 49                | 188C    | green grey      |          | grüngrau        |         |
| 49                | 188D    | green grey      |          | grüngrau        |         |
| 9                 | 189A    | brown green     |          | braungrün       |         |
| 49                | 189B    | green grey      |          | grüngrau        |         |
| 49                | 189C    | green grey      |          | grüngrau        |         |
| 49                | 189D    | green grey      |          | grüngrau        |         |
| 49                | N 189A  | green grey      |          | grüngrau        |         |
| 49                | N 189B  | green grey      |          | grüngrau        |         |
| 49                | N 189C  | green grey      |          | grüngrau        |         |
| 49                | N 189D  | green grey      |          | grüngrau        |         |
| 49                | 190A    | green grey      |          | grüngrau        |         |
| 49                | 190B    | green grey      |          | grüngrau        |         |
| 49                | 190C    | green grey      |          | grüngrau        |         |
| 49                | 190D    | green grey      |          | grüngrau        |         |
| 9                 | 191A    | brown green     |          | braungrün       |         |
| 9                 | 191B    | brown green     |          | braungrün       |         |
| 49                | 191C    | green grey      |          | grüngrau        |         |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b> | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 49                        | 191D           | green grey     |                 | grüngrau       |                |
| 49                        | 192A           | green grey     |                 | grüngrau       |                |
| 49                        | 192B           | green grey     |                 | grüngrau       |                |
| 49                        | 192C           | green grey     |                 | grüngrau       |                |
| 49                        | 192D           | green grey     |                 | grüngrau       |                |
| 9                         | 193A           | brown green    |                 | braungrün      |                |
| 9                         | 193B           | brown green    |                 | braungrün      |                |
| 49                        | 193C           | green grey     |                 | grüngrau       |                |
| 49                        | 193D           | green grey     |                 | grüngrau       |                |
| 9                         | 194A           | brown green    |                 | braungrün      |                |
| 9                         | 194B           | brown green    |                 | braungrün      |                |
| 9                         | 194C           | brown green    |                 | braungrün      |                |
| 48                        | 194D           | grey           |                 | grau           |                |
| 48                        | 195A           | grey           |                 | grau           |                |
| 48                        | 195B           | grey           |                 | grau           |                |
| 48                        | 195C           | grey           |                 | grau           |                |
| 48                        | 195D           | grey           |                 | grau           |                |
| 48                        | 196A           | grey           |                 | grau           |                |
| 48                        | 196B           | grey           |                 | grau           |                |
| 48                        | 196C           | grey           |                 | grau           |                |
| 48                        | 196D           | grey           |                 | grau           |                |
| 48                        | 197A           | grey           |                 | grau           |                |
| 48                        | 197B           | grey           |                 | grau           |                |
| 48                        | 197C           | grey           |                 | grau           |                |
| 48                        | 197D           | grey           |                 | grau           |                |
| 48                        | 198A           | grey           |                 | grau           |                |
| 48                        | 198B           | grey           |                 | grau           |                |
| 48                        | 198C           | grey           |                 | grau           |                |
| 48                        | 198D           | grey           |                 | grau           |                |
| 46                        | 199A           | grey brown     |                 | graubraun      |                |
| 46                        | 199B           | grey brown     |                 | graubraun      |                |
| 46                        | 199C           | grey brown     |                 | graubraun      |                |
| 46                        | 199D           | grey brown     |                 | graubraun      |                |
| 46                        | N 199A         | grey brown     |                 | graubraun      |                |
| 42                        | N 199B         | dark brown     |                 | dunkelbraun    |                |
| 46                        | N 199C         | grey brown     |                 | graubraun      |                |
| 46                        | N 199D         | grey brown     |                 | graubraun      |                |
| 42                        | 200A           | dark brown     |                 | dunkelbraun    |                |
| 42                        | 200B           | dark brown     |                 | dunkelbraun    |                |
| 42                        | 200C           | dark brown     |                 | dunkelbraun    |                |
| 41                        | 200D           | brown          |                 | braun          |                |
| 42                        | N 200A         | dark brown     |                 | dunkelbraun    |                |
| 48                        | N 200B         | grey           |                 | grau           |                |
| 48                        | N 200C         | grey           |                 | grau           |                |
| 48                        | N 200D         | grey           |                 | grau           |                |
| 48                        | 201A           | grey           |                 | grau           |                |
| 48                        | 201B           | grey           |                 | grau           |                |
| 48                        | 201C           | grey           |                 | grau           |                |
| 48                        | 201D           | grey           |                 | grau           |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b> | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 50                        | 202A           | black          |                 | schwarz        |                |
| 48                        | 202B           | grey           |                 | grau           |                |
| 48                        | 202C           | grey           |                 | grau           |                |
| 48                        | 202D           | grey           |                 | grau           |                |

[Appendix II follows]

## ANNEX I

**Appendix II:**  
**RHS Colors contained in each UPOV Color Group**

UPOV COLOR GROUPS ACCORDING TO RHS COLOUR CHART REFERENCE  
(1986, 1995 AND 2001 EDITIONS)

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b> | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 1                         | 155A           | white          |                 | weiss          |                |
| 1                         | 155B           | white          |                 | weiss          |                |
| 1                         | 155C           | white          |                 | weiss          |                |
| 1                         | 155D           | white          |                 | weiss          |                |
| 1                         | N 155A         | white          |                 | weiss          |                |
| 1                         | N 155B         | white          |                 | weiss          |                |
| 1                         | N 155C         | white          |                 | weiss          |                |
| 1                         | N 155D         | white          |                 | weiss          |                |
| 1                         | 157D           | white          |                 | weiss          |                |
| 2                         | 134D           | light green    |                 | hellgrün       |                |
| 2                         | 135D           | light green    |                 | hellgrün       |                |
| 2                         | 136D           | light green    |                 | hellgrün       |                |
| 2                         | 138C           | light green    |                 | hellgrün       |                |
| 2                         | 138D           | light green    |                 | hellgrün       |                |
| 2                         | 139D           | light green    |                 | hellgrün       |                |
| 2                         | 140C           | light green    |                 | hellgrün       |                |
| 2                         | 140D           | light green    |                 | hellgrün       |                |
| 2                         | 141D           | light green    |                 | hellgrün       |                |
| 2                         | 142B           | light green    |                 | hellgrün       |                |
| 2                         | 142C           | light green    |                 | hellgrün       |                |
| 2                         | 142D           | light green    |                 | hellgrün       |                |
| 2                         | 143D           | light green    |                 | hellgrün       |                |
| 2                         | 144B           | light green    |                 | hellgrün       |                |
| 2                         | 144C           | light green    |                 | hellgrün       |                |
| 2                         | 144D           | light green    |                 | hellgrün       |                |
| 2                         | N 144A         | light green    |                 | hellgrün       |                |
| 2                         | N 144B         | light green    |                 | hellgrün       |                |
| 2                         | N 144C         | light green    |                 | hellgrün       |                |
| 2                         | N 144D         | light green    |                 | hellgrün       |                |
| 2                         | 145A           | light green    |                 | hellgrün       |                |
| 2                         | 145B           | light green    |                 | hellgrün       |                |
| 2                         | 145C           | light green    |                 | hellgrün       |                |
| 2                         | 145D           | light green    |                 | hellgrün       |                |
| 2                         | 149B           | light green    |                 | hellgrün       |                |
| 2                         | 149C           | light green    |                 | hellgrün       |                |
| 2                         | 149D           | light green    |                 | hellgrün       |                |
| 3                         | 124A           | green          |                 | grün           |                |
| 3                         | 125A           | green          |                 | grün           |                |
| 3                         | 125B           | green          |                 | grün           |                |
| 3                         | 127B           | green          |                 | grün           |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b> | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 3                         | 127C           | green          |                 | grün           |                |
| 3                         | 128A           | green          |                 | grün           |                |
| 3                         | 129A           | green          |                 | grün           |                |
| 3                         | 130A           | green          |                 | grün           |                |
| 3                         | 130B           | green          |                 | grün           |                |
| 3                         | 131D           | green          |                 | grün           |                |
| 3                         | 132C           | green          |                 | grün           |                |
| 3                         | 132D           | green          |                 | grün           |                |
| 3                         | 134A           | green          |                 | grün           |                |
| 3                         | 134B           | green          |                 | grün           |                |
| 3                         | 134C           | green          |                 | grün           |                |
| 3                         | N 134C         | green          |                 | grün           |                |
| 3                         | N 134D         | green          |                 | grün           |                |
| 3                         | 135C           | green          |                 | grün           |                |
| 3                         | 140A           | green          |                 | grün           |                |
| 3                         | 140B           | green          |                 | grün           |                |
| 3                         | 142A           | green          |                 | grün           |                |
| 4                         | 131A           | dark green     |                 | dunkelgrün     |                |
| 4                         | 131B           | dark green     |                 | dunkelgrün     |                |
| 4                         | 131C           | dark green     |                 | dunkelgrün     |                |
| 4                         | 132A           | dark green     |                 | dunkelgrün     |                |
| 4                         | 132B           | dark green     |                 | dunkelgrün     |                |
| 4                         | 133A           | dark green     |                 | dunkelgrün     |                |
| 4                         | N 134A         | dark green     |                 | dunkelgrün     |                |
| 4                         | N 134B         | dark green     |                 | dunekgrün      |                |
| 4                         | 135A           | dark green     |                 | dunkelgrün     |                |
| 4                         | 135B           | dark green     |                 | dunkelgrün     |                |
| 4                         | 136A           | dark green     |                 | dunkelgrün     |                |
| 4                         | 136B           | dark green     |                 | dunkelgrün     |                |
| 4                         | 137A           | dark green     |                 | dunkelgrün     |                |
| 4                         | N 138A         | dark green     |                 | dunkelgrün     |                |
| 4                         | 139A           | dark green     |                 | dunkelgrün     |                |
| 4                         | 141A           | dark green     |                 | dunkelgrün     |                |
| 4                         | 141B           | dark green     |                 | dunkelgrün     |                |
| 4                         | 141C           | dark green     |                 | dunkelgrün     |                |
| 4                         | 143A           | dark green     |                 | dunkelgrün     |                |
| 4                         | 143B           | dark green     |                 | dunkelgrün     |                |
| 4                         | 143C           | dark green     |                 | dunkelgrün     |                |
| 4                         | 144A           | dark green     |                 | dunkelgrün     |                |
| 4                         | 147A           | dark green     |                 | dunkelgrün     |                |
| 5                         | 001B           | yellow green   |                 | gelbgrün       |                |
| 5                         | 001C           | yellow green   |                 | gelbgrün       |                |
| 5                         | 001D           | yellow green   |                 | gelbgrün       |                |
| 5                         | 002C           | yellow green   |                 | gelbgrün       |                |
| 5                         | 002D           | yellow green   |                 | gelbgrün       |                |
| 5                         | 003D           | yellow green   |                 | gelbgrün       |                |
| 5                         | 004C           | yellow green   |                 | gelbgrün       |                |
| 5                         | 149A           | yellow green   |                 | gelbgrün       |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>   | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|------------------|-----------------|----------------|----------------|
| 5                         | 150A           | yellow green     |                 | gelbgrün       |                |
| 5                         | 150B           | yellow green     |                 | gelbgrün       |                |
| 5                         | 150C           | yellow green     |                 | gelbgrün       |                |
| 5                         | 150D           | yellow green     |                 | gelbgrün       |                |
| 5                         | 154A           | yellow green     |                 | gelbgrün       |                |
| 5                         | 154B           | yellow green     |                 | gelbgrün       |                |
| 5                         | 154C           | yellow green     |                 | gelbgrün       |                |
| 5                         | 154D           | yellow green     |                 | gelbgrün       |                |
| 6                         | 126A           | grey green       |                 | graugrün       |                |
| 6                         | 126B           | grey green       |                 | graugrün       |                |
| 6                         | 126C           | grey green       |                 | graugrün       |                |
| 6                         | 127A           | grey green       |                 | graugrün       |                |
| 6                         | 133B           | grey green       |                 | graugrün       |                |
| 6                         | 133C           | grey green       |                 | graugrün       |                |
| 6                         | 133D           | grey green       |                 | graugrün       |                |
| 7                         | 120A           | light blue green |                 | hellblaugrün   |                |
| 7                         | 120B           | light blue green |                 | hellblaugrün   |                |
| 7                         | 120C           | light blue green |                 | hellblaugrün   |                |
| 7                         | 121B           | light blue green |                 | hellblaugrün   |                |
| 7                         | 123A           | light blue green |                 | hellblaugrün   |                |
| 7                         | 123B           | light blue green |                 | hellblaugrün   |                |
| 7                         | 123C           | light blue green |                 | hellblaugrün   |                |
| 7                         | 123D           | light blue green |                 | hellblaugrün   |                |
| 7                         | 124C           | light blue green |                 | hellblaugrün   |                |
| 7                         | 124D           | light blue green |                 | hellblaugrün   |                |
| 8                         | 124B           | blue green       |                 | blaugrün       |                |
| 8                         | 125C           | blue green       |                 | blaugrün       |                |
| 8                         | 125D           | blue green       |                 | blaugrün       |                |
| 8                         | 126D           | blue green       |                 | blaugrün       |                |
| 8                         | 127D           | blue green       |                 | blaugrün       |                |
| 8                         | 128B           | blue green       |                 | blaugrün       |                |
| 8                         | 128C           | blue green       |                 | blaugrün       |                |
| 8                         | 128D           | blue green       |                 | blaugrün       |                |
| 8                         | 129B           | blue green       |                 | blaugrün       |                |
| 8                         | 129C           | blue green       |                 | blaugrün       |                |
| 8                         | 129D           | blue green       |                 | blaugrün       |                |
| 8                         | 130C           | blue green       |                 | blaugrün       |                |
| 8                         | 130D           | blue green       |                 | blaugrün       |                |
| 9                         | 136C           | brown green      |                 | braungrün      |                |
| 9                         | 137B           | brown green      |                 | braungrün      |                |
| 9                         | 137C           | brown green      |                 | braungrün      |                |
| 9                         | 137D           | brown green      |                 | braungrün      |                |
| 9                         | 138A           | brown green      |                 | braungrün      |                |
| 9                         | 138B           | brown green      |                 | braungrün      |                |
| 9                         | N 138B         | brown green      |                 | braungrün      |                |
| 9                         | N 138C         | brown green      |                 | braungrün      |                |
| 9                         | N 138D         | brown green      |                 | braungrün      |                |
| 9                         | 139B           | brown green      |                 | braungrün      |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b> | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 9                         | 139C           | brown green    |                 | braungrün      |                |
| 9                         | 146A           | brown green    |                 | braungrün      |                |
| 9                         | 146B           | brown green    |                 | braungrün      |                |
| 9                         | 146C           | brown green    |                 | braungrün      |                |
| 9                         | 146D           | brown green    |                 | braungrün      |                |
| 9                         | 147B           | brown green    |                 | braungrün      |                |
| 9                         | 147C           | brown green    |                 | braungrün      |                |
| 9                         | 147D           | brown green    |                 | braungrün      |                |
| 9                         | 148A           | brown green    |                 | braungrün      |                |
| 9                         | 148B           | brown green    |                 | braungrün      |                |
| 9                         | 148C           | brown green    |                 | braungrün      |                |
| 9                         | 148D           | brown green    |                 | braungrün      |                |
| 9                         | 189A           | brown green    |                 | braungrün      |                |
| 9                         | 191A           | brown green    |                 | braungrün      |                |
| 9                         | 191B           | brown green    |                 | braungrün      |                |
| 9                         | 193A           | brown green    |                 | braungrün      |                |
| 9                         | 193B           | brown green    |                 | braungrün      |                |
| 9                         | 194A           | brown green    |                 | braungrün      |                |
| 9                         | 194B           | brown green    |                 | braungrün      |                |
| 9                         | 194C           | brown green    |                 | braungrün      |                |
| 10                        | 004D           | light yellow   |                 | hellgelb       |                |
| 10                        | 005D           | light yellow   |                 | hellgelb       |                |
| 10                        | 006D           | light yellow   |                 | hellgelb       |                |
| 10                        | 008B           | light yellow   |                 | hellgelb       |                |
| 10                        | 008C           | light yellow   |                 | hellgelb       |                |
| 10                        | 008D           | light yellow   |                 | hellgelb       |                |
| 10                        | 009C           | light yellow   |                 | hellgelb       |                |
| 10                        | 009D           | light yellow   |                 | hellgelb       |                |
| 10                        | 010A           | light yellow   |                 | hellgelb       |                |
| 10                        | 010B           | light yellow   |                 | hellgelb       |                |
| 10                        | 010C           | light yellow   |                 | hellgelb       |                |
| 10                        | 010D           | light yellow   |                 | hellgelb       |                |
| 10                        | 011B           | light yellow   |                 | hellgelb       |                |
| 10                        | 011C           | light yellow   |                 | hellgelb       |                |
| 10                        | 012C           | light yellow   |                 | hellgelb       |                |
| 10                        | 012D           | light yellow   |                 | hellgelb       |                |
| 10                        | 013D           | light yellow   |                 | hellgelb       |                |
| 10                        | 014D           | light yellow   |                 | hellgelb       |                |
| 10                        | 015D           | light yellow   |                 | hellgelb       |                |
| 10                        | 016D           | light yellow   |                 | hellgelb       |                |
| 11                        | 001A           | yellow         |                 | gelb           |                |
| 11                        | 002A           | yellow         |                 | gelb           |                |
| 11                        | 002B           | yellow         |                 | gelb           |                |
| 11                        | 003A           | yellow         |                 | gelb           |                |
| 11                        | 003B           | yellow         |                 | gelb           |                |
| 11                        | 003C           | yellow         |                 | gelb           |                |
| 11                        | 004A           | yellow         |                 | gelb           |                |
| 11                        | 004B           | yellow         |                 | gelb           |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>      | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|---------------------|-----------------|----------------|----------------|
| 11                        | 005A           | yellow              |                 | gelb           |                |
| 11                        | 005B           | yellow              |                 | gelb           |                |
| 11                        | 005C           | yellow              |                 | gelb           |                |
| 11                        | 006A           | yellow              |                 | gelb           |                |
| 11                        | 006B           | yellow              |                 | gelb           |                |
| 11                        | 006C           | yellow              |                 | gelb           |                |
| 11                        | 007A           | yellow              |                 | gelb           |                |
| 11                        | 007B           | yellow              |                 | gelb           |                |
| 11                        | 007C           | yellow              |                 | gelb           |                |
| 11                        | 007D           | yellow              |                 | gelb           |                |
| 11                        | 008A           | yellow              |                 | gelb           |                |
| 11                        | 009A           | yellow              |                 | gelb           |                |
| 11                        | 009B           | yellow              |                 | gelb           |                |
| 11                        | 012A           | yellow              |                 | gelb           |                |
| 11                        | 012B           | yellow              |                 | gelb           |                |
| 12                        | 011D           | light yellow orange |                 | hellgelborange |                |
| 12                        | 018B           | light yellow orange |                 | hellgelborange |                |
| 12                        | 018C           | light yellow orange |                 | hellgelborange |                |
| 12                        | 018D           | light yellow orange |                 | hellgelborange |                |
| 12                        | 019B           | light yellow orange |                 | hellgelborange |                |
| 12                        | 019C           | light yellow orange |                 | hellgelborange |                |
| 12                        | 019D           | light yellow orange |                 | hellgelborange |                |
| 12                        | 020C           | light yellow orange |                 | hellgelborange |                |
| 12                        | 020D           | light yellow orange |                 | hellgelborange |                |
| 12                        | 021D           | light yellow orange |                 | hellgelborange |                |
| 12                        | 022B           | light yellow orange |                 | hellgelborange |                |
| 12                        | 022C           | light yellow orange |                 | hellgelborange |                |
| 12                        | 022D           | light yellow orange |                 | hellgelborange |                |
| 12                        | 023C           | light yellow orange |                 | hellgelborange |                |
| 12                        | 023D           | light yellow orange |                 | hellgelborange |                |
| 13                        | 011A           | yellow orange       |                 | gelborange     |                |
| 13                        | 013A           | yellow orange       |                 | gelborange     |                |
| 13                        | 013B           | yellow orange       |                 | gelborange     |                |
| 13                        | 013C           | yellow orange       |                 | gelborange     |                |
| 13                        | 014A           | yellow orange       |                 | gelborange     |                |
| 13                        | 014B           | yellow orange       |                 | gelborange     |                |
| 13                        | 014C           | yellow orange       |                 | gelborange     |                |
| 13                        | 015A           | yellow orange       |                 | gelborange     |                |
| 13                        | 015B           | yellow orange       |                 | gelborange     |                |
| 13                        | 015C           | yellow orange       |                 | gelborange     |                |
| 13                        | 016A           | yellow orange       |                 | gelborange     |                |
| 13                        | 016B           | yellow orange       |                 | gelborange     |                |
| 13                        | 016C           | yellow orange       |                 | gelborange     |                |
| 13                        | 017A           | yellow orange       |                 | gelborange     |                |
| 13                        | 017B           | yellow orange       |                 | gelborange     |                |
| 13                        | 017C           | yellow orange       |                 | gelborange     |                |
| 13                        | 017D           | yellow orange       |                 | gelborange     |                |
| 13                        | 018A           | yellow orange       |                 | gelborange     |                |



| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b> | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 13                        | 019A           | yellow orange  |                 | gelborange     |                |
| 13                        | 020A           | yellow orange  |                 | gelborange     |                |
| 13                        | 020B           | yellow orange  |                 | gelborange     |                |
| 13                        | 021A           | yellow orange  |                 | gelborange     |                |
| 13                        | 021B           | yellow orange  |                 | gelborange     |                |
| 13                        | 021C           | yellow orange  |                 | gelborange     |                |
| 13                        | 022A           | yellow orange  |                 | gelborange     |                |
| 13                        | 023A           | yellow orange  |                 | gelborange     |                |
| 13                        | 023B           | yellow orange  |                 | gelborange     |                |
| 13                        | N 025D         | yellow orange  |                 | gelborange     |                |
| 14                        | 024A           | orange         |                 | orange         |                |
| 14                        | 024B           | orange         |                 | orange         |                |
| 14                        | 024C           | orange         |                 | orange         |                |
| 14                        | 024D           | orange         |                 | orange         |                |
| 14                        | 025A           | orange         |                 | orange         |                |
| 14                        | 025B           | orange         |                 | orange         |                |
| 14                        | 025C           | orange         |                 | orange         |                |
| 14                        | 025D           | orange         |                 | orange         |                |
| 14                        | N 025B         | orange         |                 | orange         |                |
| 14                        | N 025C         | orange         |                 | orange         |                |
| 14                        | 026A           | orange         |                 | orange         |                |
| 14                        | 026B           | orange         |                 | orange         |                |
| 14                        | 026C           | orange         |                 | orange         |                |
| 14                        | 026D           | orange         |                 | orange         |                |
| 14                        | 028B           | orange         |                 | orange         |                |
| 14                        | 028C           | orange         |                 | orange         |                |
| 14                        | 028D           | orange         |                 | orange         |                |
| 14                        | 029A           | orange         |                 | orange         |                |
| 14                        | 029B           | orange         |                 | orange         |                |
| 14                        | 030D           | orange         |                 | orange         |                |
| 14                        | N 030D         | orange         |                 | orange         |                |
| 15                        | 027A           | orange pink    |                 | orangerosa     |                |
| 15                        | 027B           | orange pink    |                 | orangerosa     |                |
| 15                        | 027C           | orange pink    |                 | orangerosa     |                |
| 15                        | 027D           | orange pink    |                 | orangerosa     |                |
| 15                        | 029C           | orange pink    |                 | orangerosa     |                |
| 15                        | 029D           | orange pink    |                 | orangerosa     |                |
| 15                        | 031D           | orange pink    |                 | orangerosa     |                |
| 15                        | 032D           | orange pink    |                 | orangerosa     |                |
| 15                        | 033D           | orange pink    |                 | orangerosa     |                |
| 15                        | 035C           | orange pink    |                 | orangerosa     |                |
| 15                        | 037A           | orange pink    |                 | orangerosa     |                |
| 15                        | 037B           | orange pink    |                 | orangerosa     |                |
| 15                        | 179D           | orange pink    |                 | orangerosa     |                |
| 16                        | 035D           | light red pink |                 | hellrotrosa    |                |
| 16                        | 036A           | light red pink |                 | hellrotrosa    |                |
| 16                        | 036B           | light red pink |                 | hellrotrosa    |                |
| 16                        | 036C           | light red pink |                 | hellrotrosa    |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>  | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|-----------------|-----------------|----------------|----------------|
| 16                        | 036D           | light red pink  |                 | hellrotrosa    |                |
| 16                        | 037C           | light red pink  |                 | hellrotrosa    |                |
| 16                        | 037D           | light red pink  |                 | hellrotrosa    |                |
| 16                        | 038A           | light red pink  |                 | hellrotrosa    |                |
| 16                        | 038B           | light red pink  |                 | hellrotrosa    |                |
| 16                        | 038C           | light red pink  |                 | hellrotrosa    |                |
| 16                        | 038D           | light red pink  |                 | hellrotrosa    |                |
| 16                        | 039C           | light red pink  |                 | hellrotrosa    |                |
| 16                        | 039D           | light red pink  |                 | hellrotrosa    |                |
| 16                        | 041D           | light red pink  |                 | hellrotrosa    |                |
| 16                        | 049B           | light red pink  |                 | hellrotrosa    |                |
| 16                        | 049C           | light red pink  |                 | hellrotrosa    |                |
| 16                        | 049D           | light red pink  |                 | hellrotrosa    |                |
| 16                        | 050D           | light red pink  |                 | hellrotrosa    |                |
| 17                        | 043C           | red pink        |                 | rotrosa        |                |
| 17                        | 043D           | red pink        |                 | rotrosa        |                |
| 17                        | 047D           | red pink        |                 | rotrosa        |                |
| 17                        | 048B           | red pink        |                 | rotrosa        |                |
| 17                        | 048C           | red pink        |                 | rotrosa        |                |
| 17                        | 048D           | red pink        |                 | rotrosa        |                |
| 17                        | 049A           | red pink        |                 | rotrosa        |                |
| 17                        | 050C           | red pink        |                 | rotrosa        |                |
| 17                        | 051C           | red pink        |                 | rotrosa        |                |
| 17                        | 051D           | red pink        |                 | rotrosa        |                |
| 17                        | 052B           | red pink        |                 | rotrosa        |                |
| 17                        | 052C           | red pink        |                 | rotrosa        |                |
| 17                        | 052D           | red pink        |                 | rotrosa        |                |
| 18                        | 054D           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 055C           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 055D           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 056A           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 056B           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 056C           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 056D           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 062B           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 062C           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 062D           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 063D           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 065B           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 065C           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 065D           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 068D           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 069A           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 069B           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 070D           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 073C           | light blue pink |                 | hellblaurosa   |                |
| 18                        | 073D           | light blue pink |                 | hellblaurosa   |                |
| 19                        | 062A           | blue pink       |                 | blaurosa       |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b> | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 19                        | 063B           | blue pink      |                 | blaurosa       |                |
| 19                        | 063C           | blue pink      |                 | blaurosa       |                |
| 19                        | 064C           | blue pink      |                 | blaurosa       |                |
| 19                        | 064D           | blue pink      |                 | blaurosa       |                |
| 19                        | 065A           | blue pink      |                 | blaurosa       |                |
| 19                        | 066C           | blue pink      |                 | blaurosa       |                |
| 19                        | 066D           | blue pink      |                 | blaurosa       |                |
| 19                        | N 066C         | blue pink      |                 | blaurosa       |                |
| 19                        | N 066D         | blue pink      |                 | blaurosa       |                |
| 19                        | 067B           | blue pink      |                 | blaurosa       |                |
| 19                        | 067C           | blue pink      |                 | blaurosa       |                |
| 19                        | 067D           | blue pink      |                 | blaurosa       |                |
| 19                        | 068A           | blue pink      |                 | blaurosa       |                |
| 19                        | 068B           | blue pink      |                 | blaurosa       |                |
| 19                        | 068C           | blue pink      |                 | blaurosa       |                |
| 19                        | 070C           | blue pink      |                 | blaurosa       |                |
| 19                        | 071D           | blue pink      |                 | blaurosa       |                |
| 19                        | 072C           | blue pink      |                 | blaurosa       |                |
| 19                        | 072D           | blue pink      |                 | blaurosa       |                |
| 19                        | 073A           | blue pink      |                 | blaurosa       |                |
| 19                        | 073B           | blue pink      |                 | blaurosa       |                |
| 19                        | 074D           | blue pink      |                 | blaurosa       |                |
| 19                        | N 074C         | blue pink      |                 | blaurosa       |                |
| 19                        | N 074D         | blue pink      |                 | blaurosa       |                |
| 19                        | 186C           | blue pink      |                 | blaurosa       |                |
| 19                        | 186D           | blue pink      |                 | blaurosa       |                |
| 20                        | N 025A         | orange red     |                 | orangerot      |                |
| 20                        | 028A           | orange red     |                 | orangerot      |                |
| 20                        | 030A           | orange red     |                 | orangerot      |                |
| 20                        | 030B           | orange red     |                 | orangerot      |                |
| 20                        | 030C           | orange red     |                 | orangerot      |                |
| 20                        | N 030B         | orange red     |                 | orangerot      |                |
| 20                        | N 030C         | orange red     |                 | orangerot      |                |
| 20                        | 031A           | orange red     |                 | orangerot      |                |
| 20                        | 032A           | orange red     |                 | orangerot      |                |
| 20                        | 032B           | orange red     |                 | orangerot      |                |
| 20                        | 033B           | orange red     |                 | orangerot      |                |
| 20                        | 035B           | orange red     |                 | orangerot      |                |
| 20                        | 039A           | orange red     |                 | orangerot      |                |
| 20                        | 039B           | orange red     |                 | orangerot      |                |
| 20                        | 040C           | orange red     |                 | orangerot      |                |
| 20                        | 040D           | orange red     |                 | orangerot      |                |
| 20                        | 041B           | orange red     |                 | orangerot      |                |
| 20                        | 041C           | orange red     |                 | orangerot      |                |
| 20                        | 042D           | orange red     |                 | orangerot      |                |
| 20                        | 044D           | orange red     |                 | orangerot      |                |
| 21                        | N 030A         | red            |                 | rot            |                |
| 21                        | 033A           | red            |                 | rot            |                |

| UPOV<br>Group No. | RHS No. | English       | français | deutsch       | español |
|-------------------|---------|---------------|----------|---------------|---------|
| 21                | 034A    | red           |          | rot           |         |
| 21                | N 034B  | red           |          | rot           |         |
| 21                | 040A    | red           |          | rot           |         |
| 21                | 040B    | red           |          | rot           |         |
| 21                | 041A    | red           |          | rot           |         |
| 21                | 042A    | red           |          | rot           |         |
| 21                | 042B    | red           |          | rot           |         |
| 21                | 042C    | red           |          | rot           |         |
| 21                | 043A    | red           |          | rot           |         |
| 21                | 043B    | red           |          | rot           |         |
| 21                | 044A    | red           |          | rot           |         |
| 21                | 044B    | red           |          | rot           |         |
| 21                | 044C    | red           |          | rot           |         |
| 21                | 045A    | red           |          | rot           |         |
| 21                | 045B    | red           |          | rot           |         |
| 21                | 045C    | red           |          | rot           |         |
| 21                | 046B    | red           |          | rot           |         |
| 21                | 046C    | red           |          | rot           |         |
| 21                | 047A    | red           |          | rot           |         |
| 21                | 047B    | red           |          | rot           |         |
| 21                | 050A    | red           |          | rot           |         |
| 22                | N 034C  | dark pink red |          | dunkelrosarot |         |
| 22                | 045D    | dark pink red |          | dunkelrosarot |         |
| 22                | 046D    | dark pink red |          | dunkelrosarot |         |
| 22                | 047C    | dark pink red |          | dunkelrosarot |         |
| 22                | 048A    | dark pink red |          | dunkelrosarot |         |
| 22                | 050B    | dark pink red |          | dunkelrosarot |         |
| 22                | 051A    | dark pink red |          | dunkelrosarot |         |
| 22                | 051B    | dark pink red |          | dunkelrosarot |         |
| 22                | 052A    | dark pink red |          | dunkelrosarot |         |
| 22                | 053C    | dark pink red |          | dunkelrosarot |         |
| 22                | 053D    | dark pink red |          | dunkelrosarot |         |
| 23                | 054A    | purple red    |          | purpurrot     |         |
| 23                | 054B    | purple red    |          | purpurrot     |         |
| 23                | 054C    | purple red    |          | purpurrot     |         |
| 23                | 055A    | purple red    |          | purpurrot     |         |
| 23                | 055B    | purple red    |          | purpurrot     |         |
| 23                | 057A    | purple red    |          | purpurrot     |         |
| 23                | 057B    | purple red    |          | purpurrot     |         |
| 23                | 057C    | purple red    |          | purpurrot     |         |
| 23                | 057D    | purple red    |          | purpurrot     |         |
| 23                | N 057A  | purple red    |          | purpurrot     |         |
| 23                | N 057B  | purple red    |          | purpurrot     |         |
| 23                | N 057C  | purple red    |          | purpurrot     |         |
| 23                | N 057D  | purple red    |          | purpurrot     |         |
| 23                | 058B    | purple red    |          | purpurrot     |         |
| 23                | 058C    | purple red    |          | purpurrot     |         |
| 23                | 058D    | purple red    |          | purpurrot     |         |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>  | <b>français</b> | <b>deutsch</b>  | <b>español</b> |
|---------------------------|----------------|-----------------|-----------------|-----------------|----------------|
| 23                        | 059D           | purple red      |                 | purpurrot       |                |
| 23                        | 060D           | purple red      |                 | purpurrot       |                |
| 23                        | 061C           | purple red      |                 | purpurrot       |                |
| 23                        | 061D           | purple red      |                 | purpurrot       |                |
| 23                        | 063A           | purple red      |                 | purpurrot       |                |
| 23                        | 066A           | purple red      |                 | purpurrot       |                |
| 23                        | 066B           | purple red      |                 | purpurrot       |                |
| 23                        | N 066A         | purple red      |                 | purpurrot       |                |
| 23                        | N 066B         | purple red      |                 | purpurrot       |                |
| 24                        | N 034A         | dark purple red |                 | dunkelpurpurrot |                |
| 24                        | 046A           | dark purple red |                 | dunkelpurpurrot |                |
| 24                        | 053A           | dark purple red |                 | dunkelpurpurrot |                |
| 24                        | 053B           | dark purple red |                 | dunkelpurpurrot |                |
| 24                        | 059A           | dark purple red |                 | dunkelpurpurrot |                |
| 24                        | 059B           | dark purple red |                 | dunkelpurpurrot |                |
| 24                        | 060A           | dark purple red |                 | dunkelpurpurrot |                |
| 24                        | 060B           | dark purple red |                 | dunkelpurpurrot |                |
| 24                        | 185A           | dark purple red |                 | dunkelpurpurrot |                |
| 24                        | N 186D         | dark purple red |                 | dunkelpurpurrot |                |
| 24                        | 187B           | dark purple red |                 | dunkelpurpurrot |                |
| 24                        | 187C           | dark purple red |                 | dunkelpurpurrot |                |
| 24                        | 187D           | dark purple red |                 | dunkelpurpurrot |                |
| 25                        | 178C           | brown red       |                 | braunrot        |                |
| 25                        | 178D           | brown red       |                 | braunrot        |                |
| 25                        | 179A           | brown red       |                 | braunrot        |                |
| 25                        | 179B           | brown red       |                 | braunrot        |                |
| 25                        | 180A           | brown red       |                 | braunrot        |                |
| 25                        | 180B           | brown red       |                 | braunrot        |                |
| 25                        | 180C           | brown red       |                 | braunrot        |                |
| 25                        | 180D           | brown red       |                 | braunrot        |                |
| 25                        | 181A           | brown red       |                 | braunrot        |                |
| 25                        | 181B           | brown red       |                 | braunrot        |                |
| 25                        | 181C           | brown red       |                 | braunrot        |                |
| 25                        | 181D           | brown red       |                 | braunrot        |                |
| 25                        | 182A           | brown red       |                 | braunrot        |                |
| 25                        | 182B           | brown red       |                 | braunrot        |                |
| 25                        | 182C           | brown red       |                 | braunrot        |                |
| 25                        | 182D           | brown red       |                 | braunrot        |                |
| 26                        | N 077A         | brown purple    |                 | braunpurpur     |                |
| 26                        | 178A           | brown purple    |                 | braunpurpur     |                |
| 26                        | 178B           | brown purple    |                 | braunpurpur     |                |
| 26                        | 183A           | brown purple    |                 | braunpurpur     |                |
| 26                        | 183B           | brown purple    |                 | braunpurpur     |                |
| 26                        | 183C           | brown purple    |                 | braunpurpur     |                |
| 26                        | 183D           | brown purple    |                 | braunpurpur     |                |
| 26                        | 184A           | brown purple    |                 | braunpurpur     |                |
| 26                        | 184B           | brown purple    |                 | braunpurpur     |                |
| 26                        | 184C           | brown purple    |                 | braunpurpur     |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b> | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 26                        | 184D           | brown purple   |                 | braunpurpur    |                |
| 26                        | 185B           | brown purple   |                 | braunpurpur    |                |
| 26                        | 185C           | brown purple   |                 | braunpurpur    |                |
| 26                        | 185D           | brown purple   |                 | braunpurpur    |                |
| 26                        | 186A           | brown purple   |                 | braunpurpur    |                |
| 26                        | 186B           | brown purple   |                 | braunpurpur    |                |
| 26                        | 187A           | brown purple   |                 | braunpurpur    |                |
| 27                        | 058A           | purple         |                 | purpur         |                |
| 27                        | 059C           | purple         |                 | purpur         |                |
| 27                        | 060C           | purple         |                 | purpur         |                |
| 27                        | 061A           | purple         |                 | purpur         |                |
| 27                        | 061B           | purple         |                 | purpur         |                |
| 27                        | 064A           | purple         |                 | purpur         |                |
| 27                        | 064B           | purple         |                 | purpur         |                |
| 27                        | 067A           | purple         |                 | purpur         |                |
| 27                        | 070A           | purple         |                 | purpur         |                |
| 27                        | 070B           | purple         |                 | purpur         |                |
| 27                        | 071A           | purple         |                 | purpur         |                |
| 27                        | 071B           | purple         |                 | purpur         |                |
| 27                        | 071C           | purple         |                 | purpur         |                |
| 27                        | 072A           | purple         |                 | purpur         |                |
| 27                        | 072B           | purple         |                 | purpur         |                |
| 27                        | 074A           | purple         |                 | purpur         |                |
| 27                        | 074B           | purple         |                 | purpur         |                |
| 27                        | 074C           | purple         |                 | purpur         |                |
| 27                        | N 074A         | purple         |                 | purpur         |                |
| 27                        | N 074B         | purple         |                 | purpur         |                |
| 27                        | N 079C         | purple         |                 | purpur         |                |
| 28                        | N 082A         | violet         |                 | violett        |                |
| 28                        | N 082B         | violet         |                 | violett        |                |
| 28                        | N 082C         | violet         |                 | violett        |                |
| 28                        | N 082D         | violet         |                 | violett        |                |
| 28                        | 075A           | violet         |                 | violett        |                |
| 28                        | 075B           | violet         |                 | violett        |                |
| 28                        | 075C           | violet         |                 | violett        |                |
| 28                        | 075D           | violet         |                 | violett        |                |
| 28                        | 077A           | violet         |                 | violett        |                |
| 28                        | 077B           | violet         |                 | violett        |                |
| 28                        | 077C           | violet         |                 | violett        |                |
| 28                        | 077D           | violet         |                 | violett        |                |
| 28                        | N 077B         | violet         |                 | violett        |                |
| 28                        | N 077D         | violet         |                 | violett        |                |
| 28                        | 078A           | violet         |                 | violett        |                |
| 28                        | 078B           | violet         |                 | violett        |                |
| 28                        | 078C           | violet         |                 | violett        |                |
| 28                        | 078D           | violet         |                 | violett        |                |
| 28                        | N 078A         | violet         |                 | violett        |                |
| 28                        | N 078B         | violet         |                 | violett        |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>    | <b>français</b> | <b>deutsch</b>  | <b>español</b> |
|---------------------------|----------------|-------------------|-----------------|-----------------|----------------|
| 28                        | N 078C         | violet            |                 | violett         |                |
| 28                        | N 078D         | violet            |                 | violett         |                |
| 28                        | N 079D         | violet            |                 | violett         |                |
| 28                        | 080A           | violet            |                 | violett         |                |
| 28                        | 080B           | violet            |                 | violett         |                |
| 28                        | 080C           | violet            |                 | violett         |                |
| 28                        | 080D           | violet            |                 | violett         |                |
| 28                        | N 080A         | violet            |                 | violett         |                |
| 28                        | N 080B         | violet            |                 | violett         |                |
| 28                        | N 080C         | violet            |                 | violett         |                |
| 28                        | N 080D         | violet            |                 | violett         |                |
| 28                        | 081A           | violet            |                 | violett         |                |
| 28                        | 081B           | violet            |                 | violett         |                |
| 28                        | 081C           | violet            |                 | violett         |                |
| 28                        | 081D           | violet            |                 | violett         |                |
| 28                        | N 081A         | violet            |                 | violett         |                |
| 28                        | N 081B         | violet            |                 | violett         |                |
| 28                        | N 081C         | violet            |                 | violett         |                |
| 28                        | N 081D         | violet            |                 | violett         |                |
| 28                        | 082A           | violet            |                 | violett         |                |
| 28                        | 082B           | violet            |                 | violett         |                |
| 28                        | 082C           | violet            |                 | violett         |                |
| 28                        | 082D           | violet            |                 | violett         |                |
| 28                        | 084A           | violet            |                 | violett         |                |
| 28                        | 084B           | violet            |                 | violett         |                |
| 28                        | 087A           | violet            |                 | violett         |                |
| 28                        | 087B           | violet            |                 | violett         |                |
| 28                        | 087C           | violet            |                 | violett         |                |
| 28                        | 087D           | violet            |                 | violett         |                |
| 28                        | N 087A         | violet            |                 | violett         |                |
| 28                        | N 087B         | violet            |                 | violett         |                |
| 28                        | N 087C         | violet            |                 | violett         |                |
| 28                        | N 087D         | violet            |                 | violett         |                |
| 28                        | 088D           | violet            |                 | violett         |                |
| 29                        | N 077C         | dark violet       |                 | dunkelviolet    |                |
| 29                        | 079A           | dark violet       |                 | dunkelviolet    |                |
| 29                        | 079B           | dark violet       |                 | dunkelviolet    |                |
| 29                        | 079C           | dark violet       |                 | dunkelviolet    |                |
| 29                        | 079D           | dark violet       |                 | dunkelviolet    |                |
| 29                        | N 079A         | dark violet       |                 | dunkelviolet    |                |
| 29                        | N 079B         | dark violet       |                 | dunkelviolet    |                |
| 29                        | 083A           | dark violet       |                 | dunkelviolet    |                |
| 29                        | 083B           | dark violet       |                 | dunkelviolet    |                |
| 29                        | 086A           | dark violet       |                 | dunkelviolet    |                |
| 29                        | N 092A         | dark violet       |                 | dunkelviolet    |                |
| 30                        | 069C           | light blue violet |                 | hellblauviolett |                |
| 30                        | 069D           | light blue violet |                 | hellblauviolett |                |
| 30                        | 076A           | light blue violet |                 | hellblauviolett |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>    | <b>français</b> | <b>deutsch</b>  | <b>español</b> |
|---------------------------|----------------|-------------------|-----------------|-----------------|----------------|
| 30                        | 076B           | light blue violet |                 | hellblauviolett |                |
| 30                        | 076C           | light blue violet |                 | hellblauviolett |                |
| 30                        | 076D           | light blue violet |                 | hellblauviolett |                |
| 30                        | 084C           | light blue violet |                 | hellblauviolett |                |
| 30                        | 084D           | light blue violet |                 | hellblauviolett |                |
| 30                        | 085A           | light blue violet |                 | hellblauviolett |                |
| 30                        | 085B           | light blue violet |                 | hellblauviolett |                |
| 30                        | 085C           | light blue violet |                 | hellblauviolett |                |
| 30                        | 085D           | light blue violet |                 | hellblauviolett |                |
| 31                        | 083C           | blue violet       |                 | blauviolett     |                |
| 31                        | 083D           | blue violet       |                 | blauviolett     |                |
| 31                        | 086B           | blue violet       |                 | blauviolett     |                |
| 31                        | 086C           | blue violet       |                 | blauviolett     |                |
| 31                        | 086D           | blue violet       |                 | blauviolett     |                |
| 31                        | 088A           | blue violet       |                 | blauviolett     |                |
| 31                        | 088B           | blue violet       |                 | blauviolett     |                |
| 31                        | 088C           | blue violet       |                 | blauviolett     |                |
| 31                        | N 088A         | blue violet       |                 | blauviolett     |                |
| 31                        | N 088B         | blue violet       |                 | blauviolett     |                |
| 31                        | N 088C         | blue violet       |                 | blauviolett     |                |
| 31                        | N 088D         | blue violet       |                 | blauviolett     |                |
| 31                        | 089C           | violet blue       |                 | blauviolett     |                |
| 31                        | 089D           | violet blue       |                 | blauviolett     |                |
| 31                        | N 089C         | blue violet       |                 | blauviolett     |                |
| 31                        | N 089D         | blue violet       |                 | blauviolett     |                |
| 31                        | 090A           | blue violet       |                 | blauviolett     |                |
| 31                        | 090B           | blue violet       |                 | blauviolett     |                |
| 31                        | 090C           | blue violet       |                 | blauviolett     |                |
| 31                        | 090D           | blue violet       |                 | blauviolett     |                |
| 31                        | N 092D         | blue violet       |                 | blauviolett     |                |
| 32                        | 091B           | light violet blue |                 | hellviolettblau |                |
| 32                        | 091C           | light violet blue |                 | hellviolettblau |                |
| 32                        | 091D           | light violet blue |                 | hellviolettblau |                |
| 32                        | 092B           | light violet blue |                 | hellviolettblau |                |
| 32                        | 092C           | light violet blue |                 | hellviolettblau |                |
| 32                        | 092D           | light violet blue |                 | hellviolettblau |                |
| 32                        | 093D           | light violet blue |                 | hellviolettblau |                |
| 32                        | 094D           | light violet blue |                 | hellviolettblau |                |
| 32                        | 095D           | light violet blue |                 | hellviolettblau |                |
| 32                        | 097B           | light violet blue |                 | hellviolettblau |                |
| 32                        | 097C           | light violet blue |                 | hellviolettblau |                |
| 32                        | 097D           | light violet blue |                 | hellviolettblau |                |
| 32                        | 100D           | light violet blue |                 | hellviolettblau |                |
| 33                        | 089A           | violet blue       |                 | violettblau     |                |
| 33                        | 089B           | violet blue       |                 | violettblau     |                |
| 33                        | N 089A         | violet blue       |                 | violettblau     |                |
| 33                        | N 089B         | violet blue       |                 | violettblau     |                |
| 33                        | 091A           | violet blue       |                 | violettblau     |                |



| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b> | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 33                        | 092A           | violet blue    |                 | violettblau    |                |
| 33                        | N 092B         | violet blue    |                 | violettblau    |                |
| 33                        | N 092C         | violet blue    |                 | violettblau    |                |
| 33                        | 093A           | violet blue    |                 | violettblau    |                |
| 33                        | 093B           | violet blue    |                 | violettblau    |                |
| 33                        | 093C           | violet blue    |                 | violettblau    |                |
| 33                        | 094A           | violet blue    |                 | violettblau    |                |
| 33                        | 094B           | violet blue    |                 | violettblau    |                |
| 33                        | 094C           | violet blue    |                 | violettblau    |                |
| 33                        | 095A           | violet blue    |                 | violettblau    |                |
| 33                        | 095B           | violet blue    |                 | violettblau    |                |
| 33                        | 095C           | violet blue    |                 | violettblau    |                |
| 33                        | 096A           | violet blue    |                 | violettblau    |                |
| 33                        | 096B           | violet blue    |                 | violettblau    |                |
| 33                        | 096C           | violet blue    |                 | violettblau    |                |
| 33                        | 096D           | violet blue    |                 | violettblau    |                |
| 33                        | 097A           | violet blue    |                 | violettblau    |                |
| 34                        | 101D           | light blue     |                 | hellblau       |                |
| 34                        | 104D           | light blue     |                 | hellblau       |                |
| 34                        | 106B           | light blue     |                 | hellblau       |                |
| 34                        | 106C           | light blue     |                 | hellblau       |                |
| 34                        | 106D           | light blue     |                 | hellblau       |                |
| 34                        | 107C           | light blue     |                 | hellblau       |                |
| 34                        | 107D           | light blue     |                 | hellblau       |                |
| 34                        | 108A           | light blue     |                 | hellblau       |                |
| 34                        | 108B           | light blue     |                 | hellblau       |                |
| 34                        | 108C           | light blue     |                 | hellblau       |                |
| 34                        | 108D           | light blue     |                 | hellblau       |                |
| 34                        | 109D           | light blue     |                 | hellblau       |                |
| 34                        | N 109D         | light blue     |                 | hellblau       |                |
| 34                        | 112A           | light blue     |                 | hellblau       |                |
| 34                        | 112B           | light blue     |                 | hellblau       |                |
| 35                        | 098A           | blue           |                 | blau           |                |
| 35                        | 098B           | blue           |                 | blau           |                |
| 35                        | 098C           | blue           |                 | blau           |                |
| 35                        | 098D           | blue           |                 | blau           |                |
| 35                        | 099C           | blue           |                 | blau           |                |
| 35                        | 099D           | blue           |                 | blau           |                |
| 35                        | 100A           | blue           |                 | blau           |                |
| 35                        | 100B           | blue           |                 | blau           |                |
| 35                        | 100C           | blue           |                 | blau           |                |
| 35                        | 101A           | blue           |                 | blau           |                |
| 35                        | 101B           | blue           |                 | blau           |                |
| 35                        | 101C           | blue           |                 | blau           |                |
| 35                        | 102B           | blue           |                 | blau           |                |
| 35                        | 102C           | blue           |                 | blau           |                |
| 35                        | 102D           | blue           |                 | blau           |                |
| 35                        | 103D           | blue           |                 | blau           |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>   | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|------------------|-----------------|----------------|----------------|
| 35                        | 104A           | blue             |                 | blau           |                |
| 35                        | 104B           | blue             |                 | blau           |                |
| 35                        | 104C           | blue             |                 | blau           |                |
| 35                        | 105A           | blue             |                 | blau           |                |
| 35                        | 105B           | blue             |                 | blau           |                |
| 35                        | 105C           | blue             |                 | blau           |                |
| 35                        | 105D           | blue             |                 | blau           |                |
| 35                        | 106A           | blue             |                 | blau           |                |
| 35                        | 107A           | blue             |                 | blau           |                |
| 35                        | 107B           | blue             |                 | blau           |                |
| 35                        | 109A           | blue             |                 | blau           |                |
| 35                        | 109B           | blue             |                 | blau           |                |
| 35                        | 109C           | blue             |                 | blau           |                |
| 35                        | N 109A         | blue             |                 | blau           |                |
| 35                        | N 109B         | blue             |                 | blau           |                |
| 35                        | N 109C         | blue             |                 | blau           |                |
| 35                        | 110A           | blue             |                 | blau           |                |
| 35                        | 110B           | blue             |                 | blau           |                |
| 36                        | 099A           | dark blue        |                 | dunkelblau     |                |
| 36                        | 099B           | dark blue        |                 | dunkelblau     |                |
| 36                        | 102A           | dark blue        |                 | dunkelblau     |                |
| 36                        | 103A           | dark blue        |                 | dunkelblau     |                |
| 36                        | 103B           | dark blue        |                 | dunkelblau     |                |
| 36                        | 103C           | dark blue        |                 | dunkelblau     |                |
| 37                        | 110C           | light green blue |                 | hellgrünblau   |                |
| 37                        | 110D           | light green blue |                 | hellgrünblau   |                |
| 37                        | 111C           | light green blue |                 | hellgrünblau   |                |
| 37                        | 111D           | light green blue |                 | hellgrünblau   |                |
| 37                        | 112C           | light green blue |                 | hellgrünblau   |                |
| 37                        | 112D           | light green blue |                 | hellgrünblau   |                |
| 37                        | 113C           | light green blue |                 | hellgrünblau   |                |
| 37                        | 113D           | light green blue |                 | hellgrünblau   |                |
| 37                        | 117A           | light green blue |                 | hellgrünblau   |                |
| 37                        | 117B           | light green blue |                 | hellgrünblau   |                |
| 37                        | 117C           | light green blue |                 | hellgrünblau   |                |
| 37                        | 117D           | light green blue |                 | hellgrünblau   |                |
| 37                        | 118C           | light green blue |                 | hellgrünblau   |                |
| 37                        | 118D           | light green blue |                 | hellgrünblau   |                |
| 37                        | 119D           | light green blue |                 | hellgrünblau   |                |
| 37                        | 120D           | light green blue |                 | hellgrünblau   |                |
| 37                        | 121C           | light green blue |                 | hellgrünblau   |                |
| 37                        | 121D           | light green blue |                 | hellgrünblau   |                |
| 37                        | 122D           | light green blue |                 | hellgrünblau   |                |
| 38                        | 111A           | green blue       |                 | grünblau       |                |
| 38                        | 111B           | green blue       |                 | grünblau       |                |
| 38                        | 113A           | green blue       |                 | grünblau       |                |
| 38                        | 113B           | green blue       |                 | grünblau       |                |
| 38                        | 114A           | green blue       |                 | grünblau       |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b> | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 38                        | 114B           | green blue     |                 | grünblau       |                |
| 38                        | 114C           | green blue     |                 | grünblau       |                |
| 38                        | 114D           | green blue     |                 | grünblau       |                |
| 38                        | 115A           | green blue     |                 | grünblau       |                |
| 38                        | 115B           | green blue     |                 | grünblau       |                |
| 38                        | 116A           | green blue     |                 | grünblau       |                |
| 38                        | 116B           | green blue     |                 | grünblau       |                |
| 38                        | 116C           | green blue     |                 | grünblau       |                |
| 38                        | 116D           | green blue     |                 | grünblau       |                |
| 38                        | 118A           | green blue     |                 | grünblau       |                |
| 38                        | 118B           | green blue     |                 | grünblau       |                |
| 38                        | 119A           | green blue     |                 | grünblau       |                |
| 38                        | 121A           | green blue     |                 | grünblau       |                |
| 39                        | 115C           | grey blue      |                 | graublau       |                |
| 39                        | 115D           | grey blue      |                 | graublau       |                |
| 39                        | 119B           | grey blue      |                 | graublau       |                |
| 39                        | 119C           | grey blue      |                 | graublau       |                |
| 39                        | 122A           | grey blue      |                 | graublau       |                |
| 39                        | 122B           | grey blue      |                 | graublau       |                |
| 39                        | 122C           | grey blue      |                 | graublau       |                |
| 40                        | 166C           | light brown    |                 | hellbraun      |                |
| 40                        | 166D           | light brown    |                 | hellbraun      |                |
| 40                        | N 170A         | light brown    |                 | hellbraun      |                |
| 40                        | N 170B         | light brown    |                 | hellbraun      |                |
| 40                        | N 170C         | light brown    |                 | hellbraun      |                |
| 40                        | 173C           | light brown    |                 | hellbraun      |                |
| 40                        | 173D           | light brown    |                 | hellbraun      |                |
| 40                        | 174B           | light brown    |                 | hellbraun      |                |
| 40                        | 174C           | light brown    |                 | hellbraun      |                |
| 40                        | 174D           | light brown    |                 | hellbraun      |                |
| 40                        | 176D           | light brown    |                 | hellbraun      |                |
| 40                        | 177C           | light brown    |                 | hellbraun      |                |
| 40                        | 177D           | light brown    |                 | hellbraun      |                |
| 41                        | 165A           | brown          |                 | braun          |                |
| 41                        | 166A           | brown          |                 | braun          |                |
| 41                        | 166B           | brown          |                 | braun          |                |
| 41                        | 171A           | brown          |                 | braun          |                |
| 41                        | 172A           | brown          |                 | braun          |                |
| 41                        | 172B           | brown          |                 | braun          |                |
| 41                        | 173A           | brown          |                 | braun          |                |
| 41                        | 174A           | brown          |                 | braun          |                |
| 41                        | 175A           | brown          |                 | braun          |                |
| 41                        | 175B           | brown          |                 | braun          |                |
| 41                        | 175C           | brown          |                 | braun          |                |
| 41                        | 175D           | brown          |                 | braun          |                |
| 41                        | 176A           | brown          |                 | braun          |                |
| 41                        | 176B           | brown          |                 | braun          |                |
| 41                        | 176C           | brown          |                 | braun          |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b>     | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|--------------------|-----------------|----------------|----------------|
| 41                        | 177A           | brown              |                 | braun          |                |
| 41                        | 177B           | brown              |                 | braun          |                |
| 41                        | 200D           | brown              |                 | braun          |                |
| 42                        | N 186C         | dark brown         |                 | dunkelbraun    |                |
| 42                        | N 199B         | dark brown         |                 | dunkelbraun    |                |
| 42                        | 200A           | dark brown         |                 | dunkelbraun    |                |
| 42                        | 200B           | dark brown         |                 | dunkelbraun    |                |
| 42                        | 200C           | dark brown         |                 | dunkelbraun    |                |
| 42                        | N 200A         | dark brown         |                 | dunkelbraun    |                |
| 43                        | 158A           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 158B           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 158C           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 158D           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 159A           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 159B           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 159C           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 159D           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 160A           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 160B           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 160C           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 160D           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 161A           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 161B           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 161C           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 161D           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 162A           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 162B           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 162C           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 162D           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 163B           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 163C           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 163D           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 164D           | light yellow brown |                 | hellgelbbraun  |                |
| 43                        | 165D           | light yellow brown |                 | hellgelbbraun  |                |
| 44                        | 163A           | yellow brown       |                 | gelbbraun      |                |
| 44                        | N 163C         | yellow brown       |                 | gelbbraun      |                |
| 44                        | N 163D         | yellow brown       |                 | gelbbraun      |                |
| 44                        | 164A           | yellow brown       |                 | gelbbraun      |                |
| 44                        | 164B           | yellow brown       |                 | gelbbraun      |                |
| 44                        | 164C           | yellow brown       |                 | gelbbraun      |                |
| 44                        | 165B           | yellow brown       |                 | gelbbraun      |                |
| 44                        | 165C           | yellow brown       |                 | gelbbraun      |                |
| 44                        | 167A           | yellow brown       |                 | gelbbraun      |                |
| 44                        | 167B           | yellow brown       |                 | gelbbraun      |                |
| 44                        | 167C           | yellow brown       |                 | gelbbraun      |                |
| 44                        | 167D           | yellow brown       |                 | gelbbraun      |                |
| 44                        | N 167A         | yellow brown       |                 | gelbbraun      |                |
| 44                        | N 167B         | yellow brown       |                 | gelbbraun      |                |

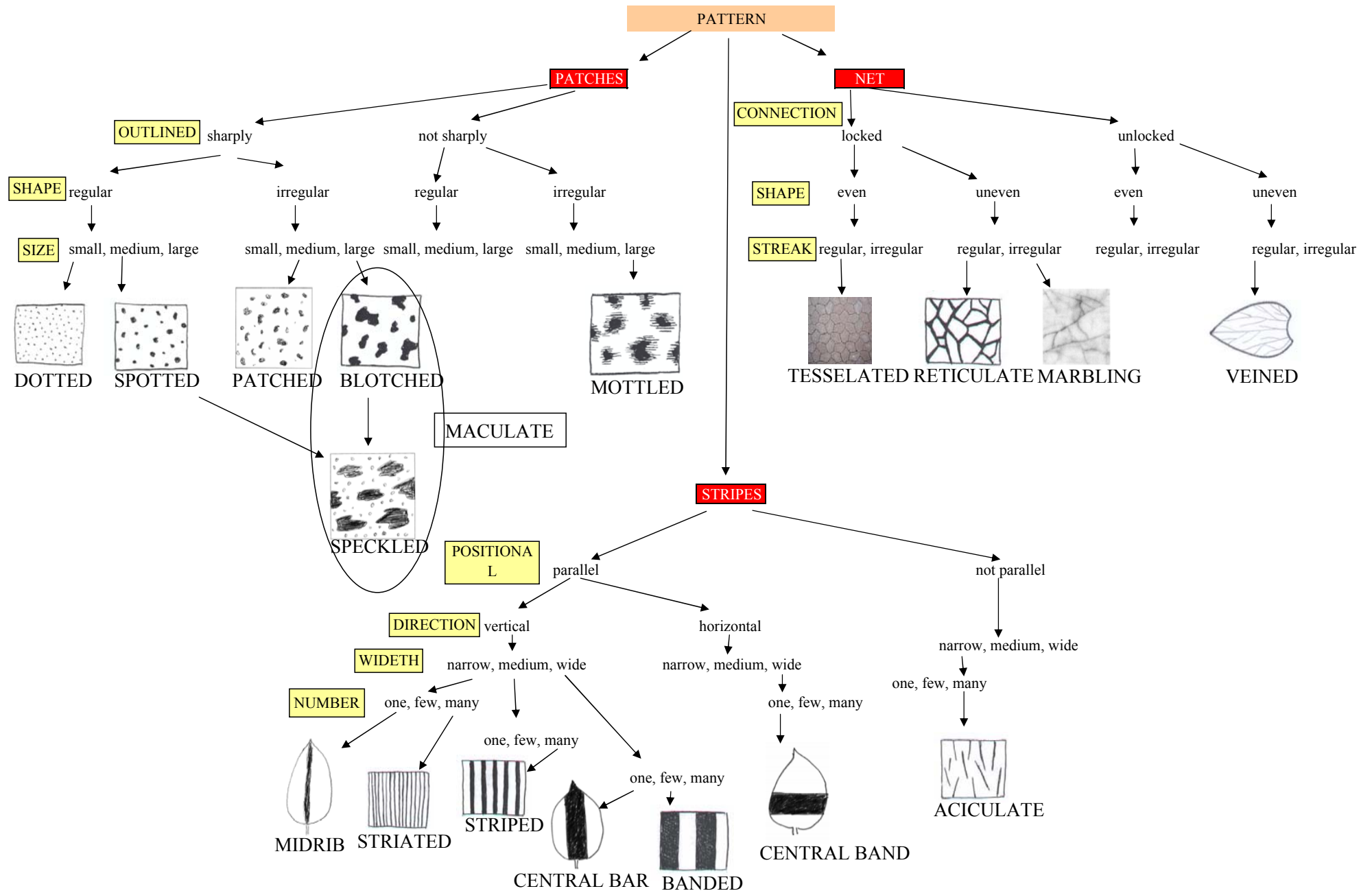
| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b> | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 44                        | N 167C         | yellow brown   |                 | gelbbraun      |                |
| 44                        | N 167D         | yellow brown   |                 | gelbbraun      |                |
| 44                        | 168C           | yellow brown   |                 | gelbbraun      |                |
| 44                        | 168D           | yellow brown   |                 | gelbbraun      |                |
| 44                        | N 172D         | yellow brown   |                 | gelbbraun      |                |
| 45                        | 031B           | orange brown   |                 | orangebraun    |                |
| 45                        | 031C           | orange brown   |                 | orangebraun    |                |
| 45                        | 032C           | orange brown   |                 | orangebraun    |                |
| 45                        | 033C           | orange brown   |                 | orangebraun    |                |
| 45                        | 034B           | orange brown   |                 | orangebraun    |                |
| 45                        | 034C           | orange brown   |                 | orangebraun    |                |
| 45                        | 034D           | orange brown   |                 | orangebraun    |                |
| 45                        | N 034D         | orange brown   |                 | orangebraun    |                |
| 45                        | 035A           | orange brown   |                 | orangebraun    |                |
| 45                        | N 163A         | orange brown   |                 | orangebraun    |                |
| 45                        | N 163B         | orange brown   |                 | orangebraun    |                |
| 45                        | 168A           | orange brown   |                 | orangebraun    |                |
| 45                        | 168B           | orange brown   |                 | orangebraun    |                |
| 45                        | 169A           | orange brown   |                 | orangebraun    |                |
| 45                        | 169B           | orange brown   |                 | orangebraun    |                |
| 45                        | 169C           | orange brown   |                 | orangebraun    |                |
| 45                        | 169D           | orange brown   |                 | orangebraun    |                |
| 45                        | 170A           | orange brown   |                 | orangebraun    |                |
| 45                        | 170B           | orange brown   |                 | orangebraun    |                |
| 45                        | 170C           | orange brown   |                 | orangebraun    |                |
| 45                        | 170D           | orange brown   |                 | orangebraun    |                |
| 45                        | N 170D         | orange brown   |                 | orangebraun    |                |
| 45                        | 171B           | orange brown   |                 | orangebraun    |                |
| 45                        | 171C           | orange brown   |                 | orangebraun    |                |
| 45                        | 171D           | orange brown   |                 | orangebraun    |                |
| 45                        | 172C           | orange brown   |                 | orangebraun    |                |
| 45                        | 172D           | orange brown   |                 | orangebraun    |                |
| 45                        | N 172A         | orange brown   |                 | orangebraun    |                |
| 45                        | N 172B         | orange brown   |                 | orangebraun    |                |
| 45                        | N 172C         | orange brown   |                 | orangebraun    |                |
| 45                        | 173B           | orange brown   |                 | orangebraun    |                |
| 45                        | 179C           | orange brown   |                 | orangebraun    |                |
| 46                        | 199A           | grey brown     |                 | graubraun      |                |
| 46                        | 199B           | grey brown     |                 | graubraun      |                |
| 46                        | 199C           | grey brown     |                 | graubraun      |                |
| 46                        | 199D           | grey brown     |                 | graubraun      |                |
| 46                        | N 199A         | grey brown     |                 | graubraun      |                |
| 46                        | N 199C         | grey brown     |                 | graubraun      |                |
| 46                        | N 199D         | grey brown     |                 | graubraun      |                |
| 47                        | 151A           | green brown    |                 | grünbraun      |                |
| 47                        | 151B           | green brown    |                 | grünbraun      |                |
| 47                        | 151C           | green brown    |                 | grünbraun      |                |
| 47                        | 151D           | green brown    |                 | grünbraun      |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b> | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 47                        | 152A           | green brown    |                 | grünbraun      |                |
| 47                        | 152B           | green brown    |                 | grünbraun      |                |
| 47                        | 152C           | green brown    |                 | grünbraun      |                |
| 47                        | 152D           | green brown    |                 | grünbraun      |                |
| 47                        | 153A           | green brown    |                 | grünbraun      |                |
| 47                        | 153B           | green brown    |                 | grünbraun      |                |
| 47                        | 153C           | green brown    |                 | grünbraun      |                |
| 47                        | 153D           | green brown    |                 | grünbraun      |                |
| 48                        | 156A           | grey           |                 | grau           |                |
| 48                        | 156B           | grey           |                 | grau           |                |
| 48                        | 156C           | grey           |                 | grau           |                |
| 48                        | 156D           | grey           |                 | grau           |                |
| 48                        | 157A           | grey           |                 | grau           |                |
| 48                        | 157B           | grey           |                 | grau           |                |
| 48                        | 157C           | grey           |                 | grau           |                |
| 48                        | N 187B         | grey           |                 | grau           |                |
| 48                        | N 187C         | grey           |                 | grau           |                |
| 48                        | N 187D         | grey           |                 | grau           |                |
| 48                        | 194D           | grey           |                 | grau           |                |
| 48                        | 195A           | grey           |                 | grau           |                |
| 48                        | 195B           | grey           |                 | grau           |                |
| 48                        | 195C           | grey           |                 | grau           |                |
| 48                        | 195D           | grey           |                 | grau           |                |
| 48                        | 196A           | grey           |                 | grau           |                |
| 48                        | 196B           | grey           |                 | grau           |                |
| 48                        | 196C           | grey           |                 | grau           |                |
| 48                        | 196D           | grey           |                 | grau           |                |
| 48                        | 197A           | grey           |                 | grau           |                |
| 48                        | 197B           | grey           |                 | grau           |                |
| 48                        | 197C           | grey           |                 | grau           |                |
| 48                        | 197D           | grey           |                 | grau           |                |
| 48                        | 198A           | grey           |                 | grau           |                |
| 48                        | 198B           | grey           |                 | grau           |                |
| 48                        | 198C           | grey           |                 | grau           |                |
| 48                        | 198D           | grey           |                 | grau           |                |
| 48                        | N 200B         | grey           |                 | grau           |                |
| 48                        | N 200C         | grey           |                 | grau           |                |
| 48                        | N 200D         | grey           |                 | grau           |                |
| 48                        | 201A           | grey           |                 | grau           |                |
| 48                        | 201B           | grey           |                 | grau           |                |
| 48                        | 201C           | grey           |                 | grau           |                |
| 48                        | 201D           | grey           |                 | grau           |                |
| 48                        | 202B           | grey           |                 | grau           |                |
| 48                        | 202C           | grey           |                 | grau           |                |
| 48                        | 202D           | grey           |                 | grau           |                |
| 49                        | 188A           | green grey     |                 | grüngrau       |                |
| 49                        | 188B           | green grey     |                 | grüngrau       |                |
| 49                        | 188C           | green grey     |                 | grüngrau       |                |

| <b>UPOV<br/>Group No.</b> | <b>RHS No.</b> | <b>English</b> | <b>français</b> | <b>deutsch</b> | <b>español</b> |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 49                        | 188D           | green grey     |                 | grüngrau       |                |
| 49                        | 189B           | green grey     |                 | grüngrau       |                |
| 49                        | 189C           | green grey     |                 | grüngrau       |                |
| 49                        | 189D           | green grey     |                 | grüngrau       |                |
| 49                        | N 189A         | green grey     |                 | grüngrau       |                |
| 49                        | N 189B         | green grey     |                 | grüngrau       |                |
| 49                        | N 189C         | green grey     |                 | grüngrau       |                |
| 49                        | N 189D         | green grey     |                 | grüngrau       |                |
| 49                        | 190A           | green grey     |                 | grüngrau       |                |
| 49                        | 190B           | green grey     |                 | grüngrau       |                |
| 49                        | 190C           | green grey     |                 | grüngrau       |                |
| 49                        | 190D           | green grey     |                 | grüngrau       |                |
| 49                        | 191C           | green grey     |                 | grüngrau       |                |
| 49                        | 191D           | green grey     |                 | grüngrau       |                |
| 49                        | 192A           | green grey     |                 | grüngrau       |                |
| 49                        | 192B           | green grey     |                 | grüngrau       |                |
| 49                        | 192C           | green grey     |                 | grüngrau       |                |
| 49                        | 192D           | green grey     |                 | grüngrau       |                |
| 49                        | 193C           | green grey     |                 | grüngrau       |                |
| 49                        | 193D           | green grey     |                 | grüngrau       |                |
| 50                        | N 186A         | black          |                 | schwarz        |                |
| 50                        | N 186B         | black          |                 | schwarz        |                |
| 50                        | N 187A         | black          |                 | schwarz        |                |
| 50                        | 202A           | black          |                 | schwarz        |                |

[Annex II follows]

SCHEME FOR DETERMINING COLOR PATTERN TERMS







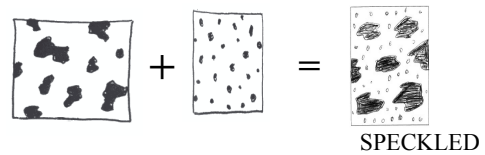
**PATCHES**

outline (sharply / not sharply)

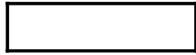
shape (regular / irregular)

size (small / medium / large)

| OUTLINED<br>SIZE \ SHAPE | sharply         |                  | not sharply     |           |
|--------------------------|-----------------|------------------|-----------------|-----------|
|                          | regular         | irregular        | regular         | irregular |
| small                    | <br><br>DOTTED  |                  |                 |           |
| medium                   | <br><br>SPOTTED | <br><br>PATCHED  |                 |           |
| large                    |                 | <br><br>BLOTCHED | <br><br>MOTTLED |           |



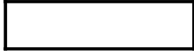
TWV/44/23  
ANNEX II  
Appendix 2: Stripes



**STRIPES**

positional relation ( parallel / not parallel )  
direction ( vertical / horizontal )  
width ( narrow / medium / wide )  
number ( one / few / many )

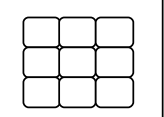
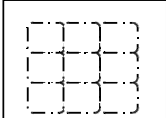

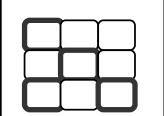







| width \ number | parallel        |            |              |                  |     |      | not parallel |               |
|----------------|-----------------|------------|--------------|------------------|-----|------|--------------|---------------|
|                | vertical        |            |              | horizontal       |     |      | few          | many          |
|                | one             | few        | many         | one              | few | many | few          | many          |
| narrow         |                 |            | <br>STRIATED |                  |     |      |              |               |
| medium         | <br>MIDRIB      |            | <br>STRIPED  |                  |     |      |              | <br>ACICULATE |
| wide           | <br>CENTRAL BAR | <br>BANDED |              | <br>CENTRAL BAND |     |      |              |               |



**NET**

connection ( locked / unlocked )

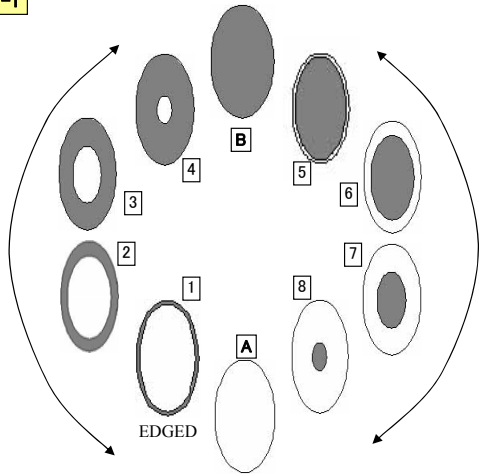
shape/grid (even/ uneven) / ( regular / irregular )

| shape  | grid      | locked   | unlocked   |
|--------|-----------|--|--|
| even   | regular   | <br><br><br>TESSELLATED |  |
|        | irregular | <br>   |  |
| uneven | regular   | <br><br>RETICULATE  | <br>VEINED |
|        | irregular | <br><br>MARBLING   |           |

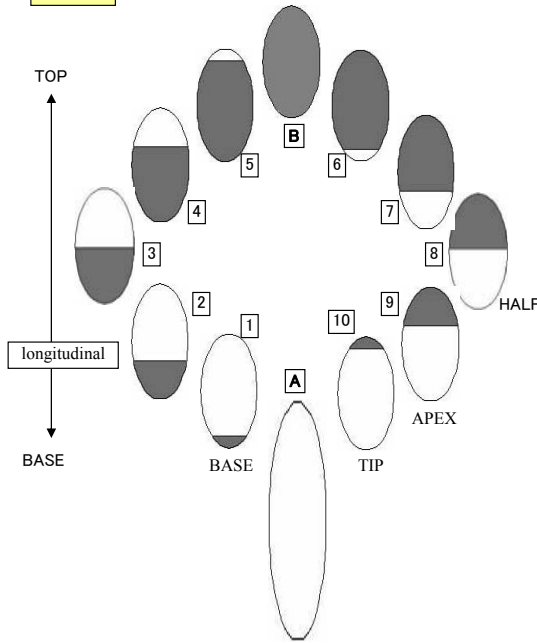
Appendix 4: Distribution

DISTRIBUTION

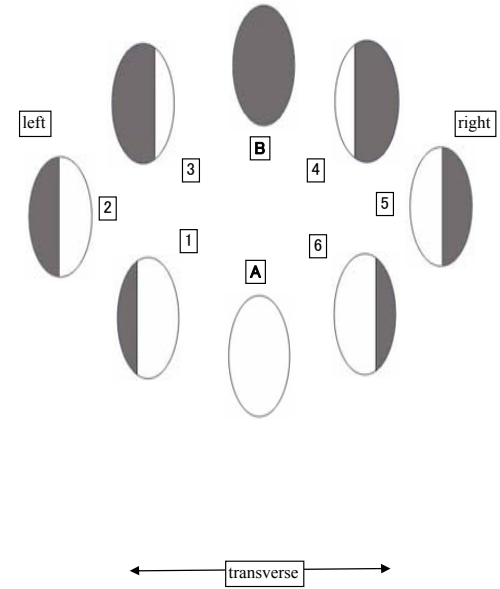
TYPE 1-1



TYPE 2-1

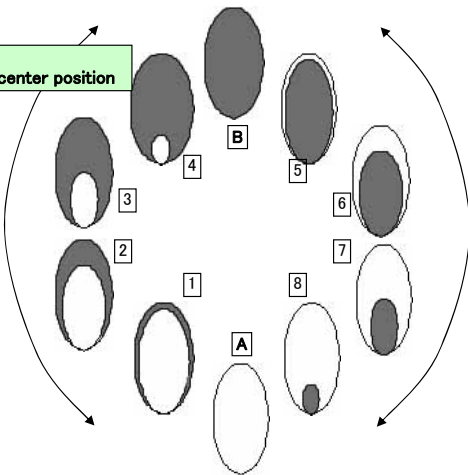
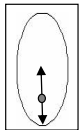


TYPE 3-1

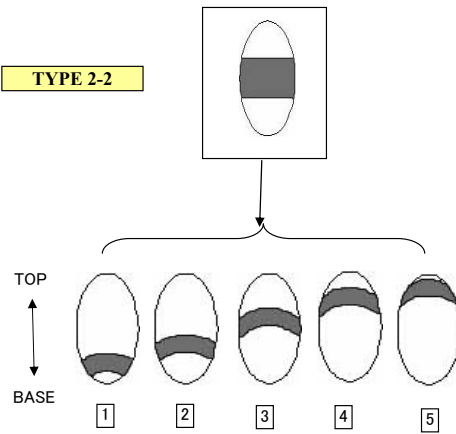


TYPE 1-2

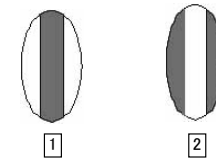
arrange : shift of the center position



TYPE 2-2

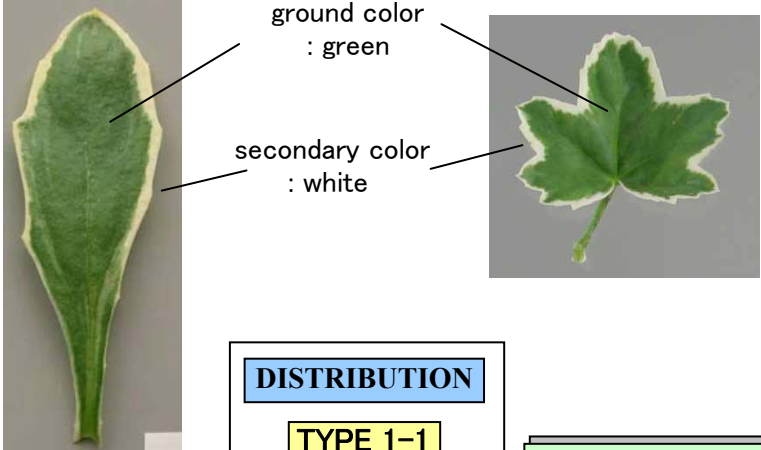


TYPE 3-2



EXAMPLE(LEAF)

**Ex.1**




ground color : green

secondary color : white


**DISTRIBUTION**

**TYPE 1-1**

6




**COLOR PATTERN**



**MARGINA ZONE**

**Ex.2**




ground color : green

secondary color : white

**DISTRIBUTION**

**TYPE 3-2**

2



or

**PATTERN**

STRIPES


PARALLEL

VERTICAL

WIDE


ONE

**COLOR PATTERN**



**CENTRAL BAR**

Ex.3



**DISTRIBUTION**

**TYPE 3-2**

1


ground color : green  
secondary color : white

**PATTERN**

STRIPES  
PARALLEL  
VERTICAL  
MEDIUM  
FEW

or

Ex.4



ground color : green  
secondary color : white

**PATTERN**

PATCHES  
SHARPLY  
IRREGULAR  
MEDIUM

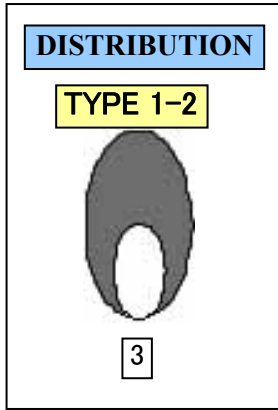
**COLOR PATTERN**

PATCHED

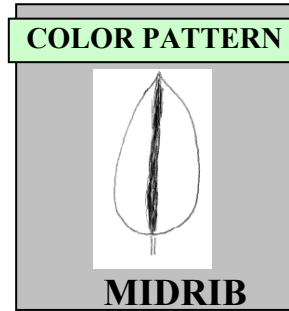
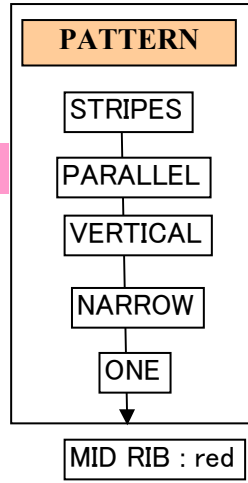
Ex.5



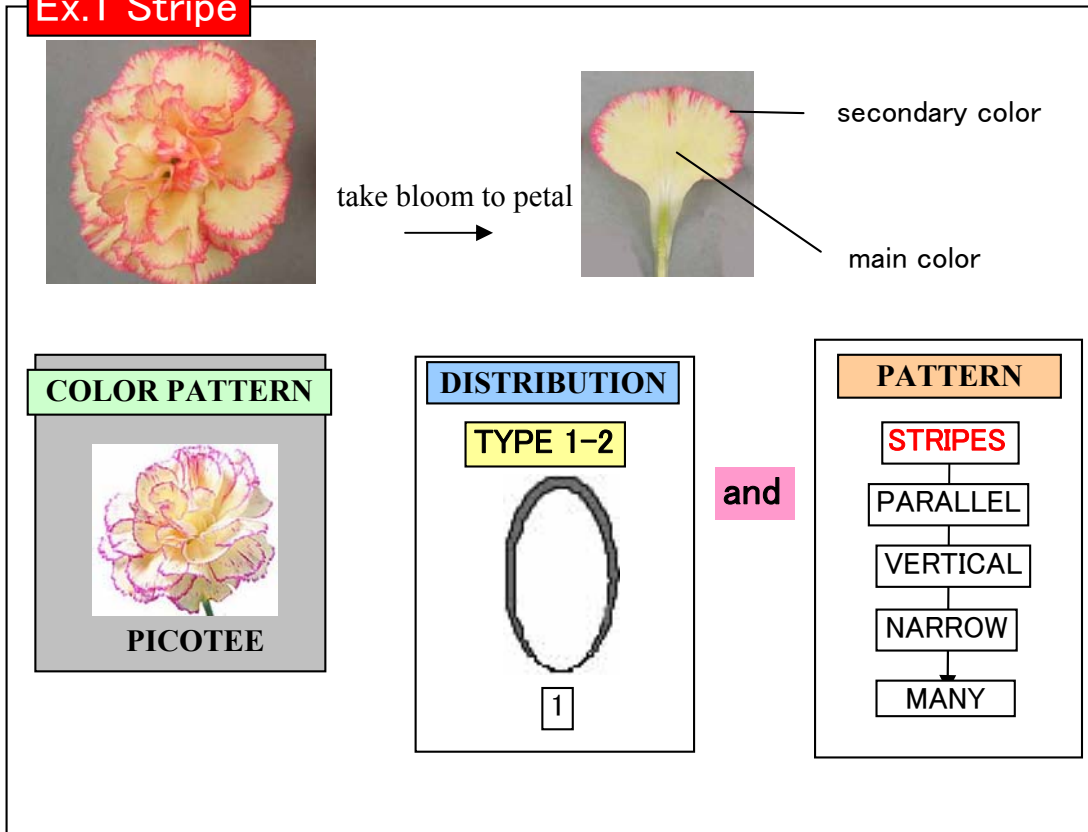
ground color : green  
secondary color : yellow  
tertiary color : red



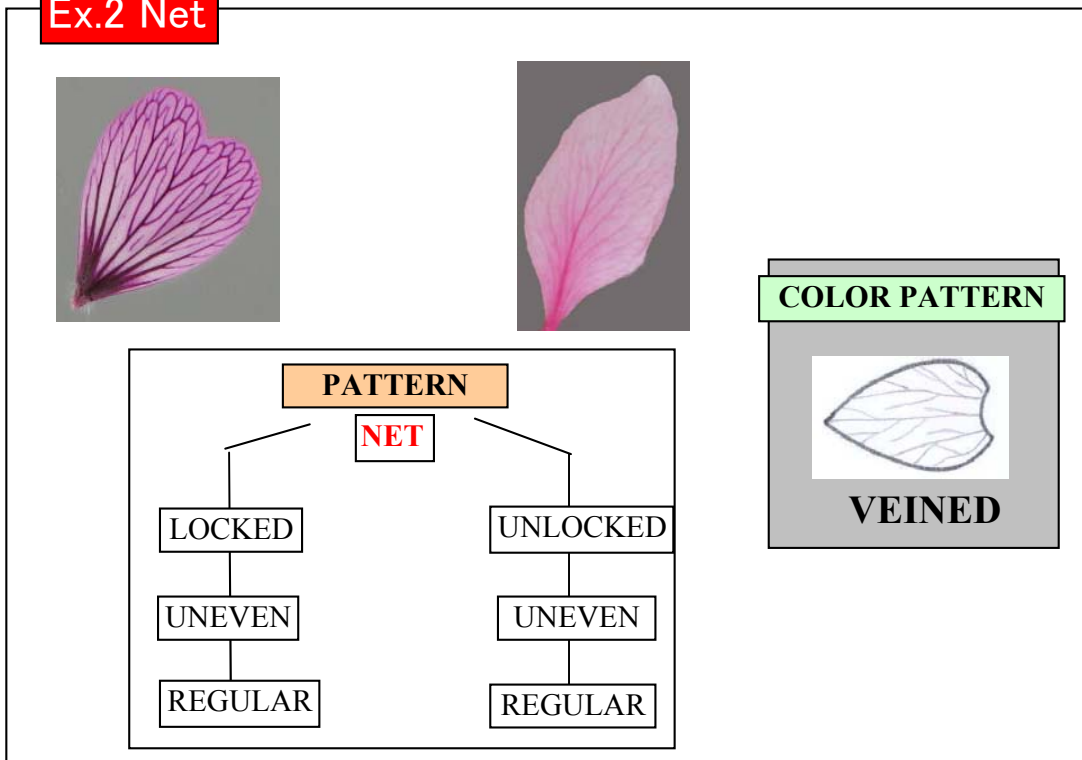
plus



**Ex.1 Stripe**



**Ex.2 Net**





**Ex.3 Patch**

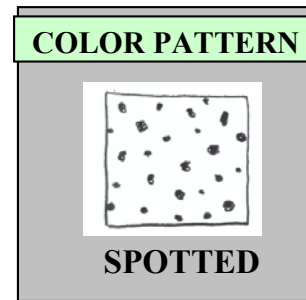
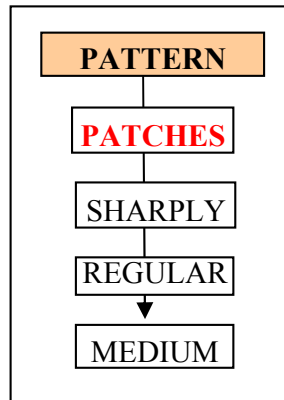


take bloom to petal



main color

secondary color



[End of Annex II and of document]