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AND FOREST TREES**

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DOCUMENT TGP/14: SECTIONS FOR SEPARATE DEVELOPMENT

Document prepared by the Office of the Union

As explained in document TWO/42/3 “TGP documents”, this document contains information concerning document TGP/14, Section 2, Subsection 3 “Color”, which has been omitted from document TGP/14/1 in order to allow its separate development for inclusion in a future revision of document TGP/14. That information is provided as follows:

- Annex I: Section 2, Subsection 3 “Color”, omitted from document TGP/14/1 Draft 9;
- 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
- Annex II: (a) conclusions of the Workshop on document TGP/14/1 Section 2, Subsection 3 “Color”; and
- Appendix: Scheme for Determining Color Pattern Terms
- (b) comments of the Technical Working Parties on document TGP/14/1 Draft 6 Section 2, Subsection 3 “Color” and on the conclusions of the Workshop on document TGP/14/1 Section 2, Subsection 3 “Color”.

[Annex I follows]

**EXTRACT FROM DOCUMENT TGP/14/1 DRAFT 7
SECTION 2: BOTANICAL TERMS: SUBSECTION 3: “COLOR”**

OMMITTED FROM DOCUMENT TGP/14/1 DRAFT 9

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

Section 2: Botanical Terms

Subsection 3: Color

Note for Draft version

~~Strikethrough~~ (highlighted) indicates deletion from the text presented to the Technical Committee (TC) at its forty-fourth session

Underlining (highlighted) indicates insertion to the text presented to the TC at its forty-fourth session

highlighted text indicates text which cannot yet be completed

Footnotes will be retained in published document

Endnotes are for background information when considering this draft and will not appear in the final, published document

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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

SUBSECTION 3: COLOR

(1) Color characteristics

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

1. Components of Color

1.1 Color is complex and can be defined in terms of 3 main elements: HUE (distinguishes the kind of color), 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 2 elements of color: COLOR and INTENSITY. The illustration below shows the 2 elements: COLOR in the horizontal cross section and INTENSITY in the vertical axis:



2. Development of Color Characteristics

2.1 Terms used for color

¹ 2.1.1 As explained in Section 1, for the purposes of UPOV Test Guidelines, it can be useful to consider color according to the following terms:

~~COLOR: HUE and SATURATION are, in general, combined in a single characteristic for color
(see 2.1.2 below)~~

~~INTENSITY (synonym: LIGHTNESS): (Inverse of BRIGHTNESS): indicates the amount of light that is absorbed by the color, indicated in a light to dark scale, e.g. light, medium, dark
(see 2.1.3 below)~~

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

(a) Simple 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.)

"Whitish" is synonymous with "off white"

¹ The TWO proposed that the definitions of the components of color should be deleted.

(d) Intensity

the intensity can be presented in combination with the color
e.g. light green, dark green etc.

(e) Color chart

Because of its worldwide availability, UPOV uses the color chart from the Royal Horticultural Society (RHS), the “RHS Colour Chart”. There are 4 editions of this color chart, dating from 1966, 1986, 1995 and 2001. Since 2005, the ‘RHS mini colour chart’ has also been published by the Flower Council Holland and is also frequently used by breeders. Some examination offices are still in the possession of a HCC colour chart of 1942 and use it beside the RHS Colour chart. Other color charts may also be appropriate.

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.

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 document TGP/14.2.3.2 [*cross ref.*].

2.2 Developing characteristics

2.2.1 Type of expression

As explained in Section I, color is complex and can be defined in terms of 3 main elements: hue, saturation and brightness (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, it is common for the intensity of green color to 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.

2.2.2 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/14.2, Glossary of Botanical, Statistical and Terms Used in UPOV Documents: Botanical Terms [*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).

2.2.3 Color chart

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 certain cases where the lightness of a color is observed (e.g. intensity of green color: light-medium-dark);
- (b) where the size of the color surface 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 shadows of some colors).

2.2.4 Examples

2.2.4.1 Qualitative characteristics

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

2.2.4.2 Quantitative characteristics

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

2.2.4.3 Pseudo-Qualitative characteristics

- (i) Simple colors

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

- (ii) Simple colors / color combination

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

- (iii) Simple 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)

=> 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.:

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

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

2.3 Unsuitable color names

Color terms such as “beige”, “bronze”, “fuchsia”, “gold”, “ochre”, “salmon”, “silver”, etc. should not normally be used in the Test Guidelines because they could cause confusion concerning the intended color. Therefore, those terms should be replaced by standard colors (e.g. orange brown instead of bronze). However, where those 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)

Furthermore, gold and silver might be used in Test Guidelines where the color to be described contains a standard color in combination with other characteristics (like waxy layers). See also TGP/14.2.1 Glossiness [*cross ref.*].

2.4 Timing of observations

2.4.1 It is very important that 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 aging of the plant/organ or the time of the day.

2.4.2 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.

Example for Anthurium where the color of the part of the Spadix changes after dehiscence of the anthers:

Spadix: Main color of distal part shortly before dehiscence of anthers

Spadix: Main color of distal part shortly after dehiscence of anthers

PART III: COLOR DISTRIBUTION / PATTERN

Note:

Part III of this document will be reviewed according to the outcome of the consideration of the conclusions of the workshop on document TGP/14 Section 2, Subsection 3 “Color”, as set out in documents TWF/39/3 Add., TWO/41/3 Add., TWV/42/3 Add. and TWA/37/3 Add.. The following comments have been made on those conclusions:

The TWF supported the proposals set out in document TWF/39/3 Add.. With regard to characteristics for color changes over time, it noted that that matter would be discussed at its next session in relation to Peach. It was also noted that any such characteristics would need to fulfill the UPOV requirements for a characteristic.

The TWF proposed that the example of anthocyanin coloration in the flesh of peach could be used to illustrate the need to consider both the intensity and distribution of anthocyanin coloration in some cases.

The TWO agreed to start using the proposals set out in document TWO/41/3 Add. in the preparation of draft Test Guidelines for 2009. It noted that it would be necessary to develop a new state of expression in color pattern characteristics to describe the area of color which was previously described as the “main” color, (e.g. continuous dispersion). It was also agreed that the example in 4.2 of document TWO/41/3 Add. should be amended to read “Petal: shape of color [1]/[2] area.

The TWO agreed that it would still be important to retain the possibility to have a characteristic for number of colors in order to have a simple overall characteristic, but which was not used as the starting point to describe color pattern. It also agreed that it would be important to retain the option, where appropriate, to describe the color pattern by describing colors in specified parts of the plants (e.g. color of margin, color of basal zone etc.).

With regard to anthocyanin coloration, it was agreed that an example of characteristics should be included in TGP/14.

In order to develop and test the approach to color characteristics proposed in document TWO/41/3 Add., the TWO agreed to have an exercise on color in Alstroemeria, Canna and Phalaenopsis to see if characteristics based on that approach would be more effective than the traditional approach. The TWO agreed that the European Community should coordinate a subgroup to develop proposals for an exercise to be conducted by the TWO, in which the two approaches would be evaluated. The experts present at the session, from Australia, France, Germany, Japan, Mexico, Netherlands (Kees Grashoff), New Zealand, United Kingdom and the Office of the Union agreed to participate in the subgroup. The first draft of characteristics, to be prepared by the European Community according to the proposed new approach, would be circulated to the subgroup for comment by October 31, 2008, with 4 weeks for comments. On

the basis of the comments, a new draft would be prepared by the European Community and checked by the subgroup. A circular presenting the exercise would be sent by the Office of the Union to the TWO by the end of February 2008, with 6 weeks for completion. The completed exercises by the TWO experts would be sent to the European Community, with a copy to the Office of the Union. The European Community would then prepare a TWO document, containing the compiled results of the exercise, 6 weeks before the forty-second session of the TWO.

The TWV agreed that consideration should be given to including “flecking” as a color pattern in the scheme in the annex to document TWV/42/3 Add..

With regard to document TWV/42/3 Add., “(d) Color Change Over Time”, the TWV agreed that characteristic 2 “Fruit: succession of colors” should be considered as a possible option for consideration in relation to relevant Test Guidelines.

The TWA proposed to include guidance on characteristics and states of expression for green color and, in particular, to avoid the creation of a separate characteristic for intensity of particular hues of green (c.f. draft Test Guidelines for Pea (document TG/7/10(proj.5): Chars. 7 and 8)

1. Terms used for color distribution

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

1.1 Main/Secondary/Tertiary Color

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

1.2 Ground/Over Color

- (a) **GROUND COLOR:** The first color to appear chronologically during the development of the organ and upon which other colors will develop in time in the form of spots, a macule, or a color flush or blush. It is not always necessarily the largest area of the (part of the) organ concerned.
- (b) **OVER COLOR:** In the case of an organ which has a ground color with a second color developing over time, usually in the form of a flush, which is not very sharply bordered, this flush is called the over color. It is not always necessarily the smallest area of the (part of the) organ concerned.

1.3 Variegation

VARIEGATION: well defined areas of different colors, especially as irregular patches or stripes on one organ.

1.4 One-/Self-/Bi-Colored

(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) SELF-COLORED (synonym 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 / self-colored (state 1); one-colored / non self-colored (state 2); bicolored (state 3).

(c) BICOLORED: where an organ has two clearly different color hues. There may be clear borders between the two color hues, or they may be overlaid, partially blended or in the form of a pattern.

2. Terms used for Color Patterns

2.1 Flush/Blush

(a) FLUSH: different color hue as a thin 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.

2.2 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 (synonym: MACULATE with large spots): 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 (MACULATE with small spots): 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) MACULATE: term covering both blotched and speckled.

2.3 Veined/Midrib

(a) VEINED: different color of veins compared to the rest of the organ.

(b) 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.

2.4 On Margin/Picotee/Marginal Zone

(a) ON MARGIN (synonym: EDGED): 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.

2.5 Striped/Striated/Aciculate/Banded/Central Band/Central Bar

(a) SPECKLED (maculate): with many small spots, patches (irregular contour) or flecks (irregular spot, usually longer than broad)

(b) STRIATED: finely striped: with another color as fine, more or less parallel stripes.

(c) ACICULATE: with another color as fine, straight stripes, lying in different directions.

(d) 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.

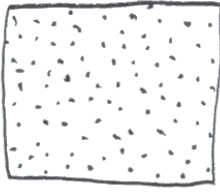
(f) CENTRAL BAR: with another color as a vertical bar at the central part of the organ. Compare to “midrib”, which is usually narrower and “central band” which is horizontal.

(g) MARBLING: resembling marble in color pattern

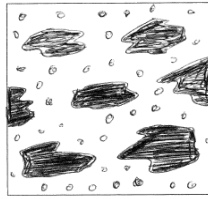
(h) RETICULATE (synonym NETTED): with another color as in the form of a net over the surface of the organ.

(i) TESSELATED = chequered, marked with a grid of small, regular shapes.

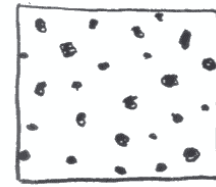
2.6 Illustrations



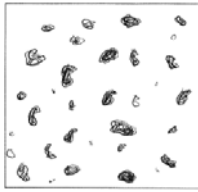
Dotted



Speckled [to be improved]



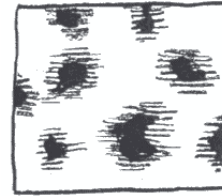
Spotted



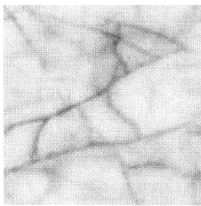
Patched



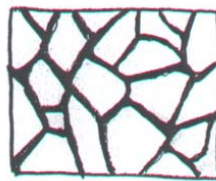
Blotched (Maculate)



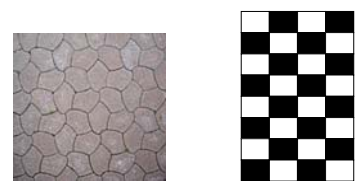
Mottled



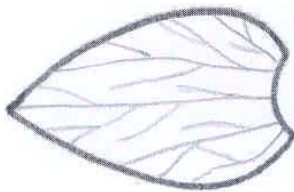
Marbling



Reticulate (Netted)



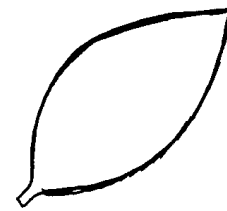
Tessellate



Veined



Midrib



On Margin (Edged)



Picotee



Marginal Zone



Central Band



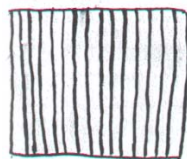
Central Bar



Banded



Striped



Striated



Aciculate

2.7 Other Color Terminology

(a) ANTHOCYANIN COLORATION: flush, part of the organ or whole organ has an over color of anthocyanin. Usually, only the area where it is present, the hue and the intensity of the anthocyanin coloration is described. The main colors of this anthocyanin coloration are purplish, reddish and brownish.

(b) GLAUCOSITY(BLOOM): The fact that the surface of an organ is coated with a whitish or grayish waxy layer which can be often be rubbed off or removed.

(c) CONSPICUOUS: clearly visible, evident.

(d) INCONSPICUOUS: not clearly visible, obscure.

3. Development of Characteristics for Color Distribution / Pattern

3.1 When organs have more than one color, the main color is the color that has the largest relative area of the surface that is covered with the color in question (including the color pattern). In cases where the relative areas are equal, the expert should indicate which color is considered to be the main color. In such cases other criteria might apply, however, usually the darkest color of the two is considered the main color (see also Part II section 1.1). The basis for this decision should be indicated in the Test Guideline for the species concerned.

3.2 With regard to the order of characteristics, the following order can be considered:

- number of colors of the organ
- main color of the organ
- border between colors (sharply outlined/not sharply outlined); excluding varieties with single colored organs
- regularity of secondary color; excluding varieties with single colored organs
- color of secondary color; excluding varieties with single colored organs
- location of secondary color; excluding varieties with single colored organs
- description of the color pattern
- etc.

3.3 When preparing a list of characteristics to describe a color distribution it is recommended to study the Test Guidelines which are available and which contain similar color descriptions like Test Guidelines, for example: chrysanthemum, orchids, alstroemeria, ficus and fruit species.

4. Examples of Color Distribution / Pattern Characteristics

4.1 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 describe the color with the RHS Colour Chart. The second option, mentioned under tertiary color, should be used in such a case.)

4.2 Ground/Over Color

Fruit: Ground color white (1); whitish yellow (2); yellow (3); ... (PQ)

Fruit: Relative area of over color absent or very small (1); small (3); medium (5); large (7); very large (9) (QN)

Fruit: Over color: orange red (1); pink red (2); red (3); purple red (4); brown red (5) (PQ)

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 defined stripes (2); solid flush with strongly defined stripes (3); weakly defined flush with strongly defined stripes (4); only stripes (5); flushed and mottled (6); flushed, striped and mottled (7) (PQ)

4.3 Variegation

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

Leaf: color of variegation white (1); yellowish (2); light green (3) (PQ)
(followed by a description of the variegation like:)

Varieties with variegated leaves only: Near main vein (1); near margin (2); randomly spread (3) (PQ)
leaf: distribution of variegation

4.4 One-/Self-/Two-Colored

Ray floret: number of colors one (1); two (2) (QL)

(State (1) also includes self-colored)

Only one-colored varieties

Ray floret: Color distribution of
upper side none (1); lighter towards base (2);
lighter towards apex (3)

*(States of expression (2) and (3) are
examples of self colored)*

PART IV: 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
Bronze
Central Band
Central Bar
Color
Conspicuous
Dotted
Edged
Fleck
Flush
Fuchsia
Glaucosity
Gold
Ground color
HCC colour chart
Hue
Inconspicuous
-ish
Lightness
Maculated
Main color
Main vein
Marbling
Marginal zone
Midrib
Mottled

Netted
Off white
On margin
One-colored
Over color
Patched
Picotee
Reticulate
RHS color
RHS colour chart
RHS mini colour chart
Salmon
Saturation
Secondary color
Self-colored
Shaded
Silver
Speckled
Spotted
Striated
Striped
Tertiary color
Tessellated
Variegation
Veined
Waxy layer
Whitish
Yellowish

PART IV: LITERATURE

RHS Colour Chart, 2001, Royal Horticultural Society, London, UK

RHS Mini Colour Chart, 2005, Royal Horticultural Society, London, UK, 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://mcsl.rit.edu/>

(2) 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> Flower: secondary colour of upper side | purple | RHS N 74B | |
| 22 | <u>Varieties with bi- or multicoloured flowers only:</u> 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 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**

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 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 | |

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Appendix I to Annex I, page 2

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|---------------------|-----------------|----------------|----------------|
| 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 | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|-------------------|---------|---------------------|----------|----------------|---------|
| 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 | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|-----------------|-----------------|-----------------|----------------|
| 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 | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|-------------------|---------|-----------------|----------|-----------------|---------|
| 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 | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|-----------------|-----------------|-----------------|----------------|
| 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 | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|-------------------|-----------------|-----------------|----------------|
| 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 | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|-------------------|-----------------|-----------------|----------------|
| 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 | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|-------------------|-----------------|-----------------|----------------|
| 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 | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|-------------------|-----------------|-----------------|----------------|
| 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 | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|------------------|-----------------|----------------|----------------|
| 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 | |

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

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

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

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

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

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 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 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 | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|-------------------|---------|-------------|----------|-------------|---------|
| 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 | |

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

[Appendix II follows]

APPENDIX II TO 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)**

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 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 | |
| 3 | 127C | green | | grün | |
| 3 | 128A | green | | grün | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|-------------------|---------|--------------|----------|------------|---------|
| 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 | |
| 5 | 150A | yellow green | | gelbgrün | |
| 5 | 150B | yellow green | | gelbgrün | |
| 5 | 150C | yellow green | | gelbgrün | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|------------------|-----------------|----------------|----------------|
| 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 | |
| 9 | 139C | brown green | | braungrün | |
| 9 | 146A | brown green | | braungrün | |
| 9 | 146B | brown green | | braungrün | |
| 9 | 146C | brown green | | braungrün | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 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 | |
| 11 | 005A | yellow | | gelb | |
| 11 | 005B | yellow | | gelb | |
| 11 | 005C | yellow | | gelb | |
| 11 | 006A | yellow | | gelb | |
| 11 | 006B | yellow | | gelb | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|---------------------|-----------------|----------------|----------------|
| 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 | |
| 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 | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 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 | |
| 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 | |

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

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

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|-----------------|-----------------|-----------------|----------------|
| 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 | |
| 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 | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|-----------------|-----------------|-----------------|----------------|
| 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 | |
| 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 | |

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

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|-------------------|-----------------|-----------------|----------------|
| 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 | |
| 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 | |

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

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

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|------------------|-----------------|----------------|----------------|
| 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 | |
| 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 | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|--------------------|-----------------|----------------|----------------|
| 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 | |
| 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 | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|--------------------|-----------------|----------------|----------------|
| 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 | |
| 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 | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 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 | |
| 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 | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 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 | |
| 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 | |

| UPOV Group No. | RHS No. | English | français | deutsch | español |
|---------------------------|----------------|----------------|-----------------|----------------|----------------|
| 50 | N 186A | black | | schwarz | |
| 50 | N 186B | black | | schwarz | |
| 50 | N 187A | black | | schwarz | |
| 50 | 202A | black | | schwarz | |

[Annex II follows]

ANNEX II

(a) CONCLUSIONS OF THE WORKSHOP ON
DOCUMENT TGP/14 SECTION 2, SUBSECTION 3 “COLOR”

The following is a report on the conclusions of the workshop on document TGP/14 Section 2, Subsection 3 “Color” (TGP/14 Workshop), which was held on May 30 and 31, 2008, in Lisbon, Portugal, under the chairmanship of Mr. Ton Kwakkenbos (Community Plant Variety Office of the European Community (CPVO)). A copy of the documents and information discussed at the Workshop can be found at http://www.upov.int/restrict/en/two/index_two41.htm.

STRATEGIES FOR COLOR CHARACTERISTICS

1. The TGP/14 Workshop agreed that the most appropriate strategy for describing color would need to be considered on a characteristic-by-characteristic basis. The following are strategies which might be appropriate:

(a) Number of Colors

2. The TGP/14 Workshop concluded that the use of characteristics for “number of colors” should be avoided as the starting point for describing color distribution and patterns. Instead, it was agreed that the colors should first be described, followed by characteristics explaining the area, distribution, pattern etc. of each color

Example

1.1 Petal: color 1

(+)

| | <i>Option 1</i> | <i>Option 2</i> * | <i>Option 3</i> |
|-----------|-----------------|-------------------------------|-------------------------|
| PQ | green | 1 UPOV Color Group | (1-50) RHS Colour Chart |
| | yellow | 2 | |
| | red | 3 | |
| | etc | * option subsequently deleted | |

3. The TGP/14 Workshop agreed that the following standard explanation should be included in the Test Guidelines when using this approach for describing color:

“Ad. 1 (Option 1). The order of colors in Char. 1.1, 1.2 etc. should be according to the order in the states of expression (green, yellow etc.). The RHS Colour Chart should be used to allocate the color to the appropriate state. In some cases, it may be appropriate to create particular groupings of RHS Colour Chart references in the Test Guidelines.”

~~“Ad. 1 (Option 2).~~ The order of colors should follow the ~~UPOV Color Group order~~”

“Ad. 1 (Option 3). The order of colors should follow the RHS Colour Chart order.”

- with the following paragraph added for all options above:

“A photograph of the [relevant organ] should be provided in conjunction with the description in order to clarify the color pattern. However, a warning should be added to this photograph, explaining that the first intention is to represent the distribution of colors on flowers of the varieties more than the colors themselves. Such colors can be affected by the technology of the camera and the facilities used to display the photograph (printer, overhead projector, etc.).”

1.2 Petal: color 2

(+)

| | <i>Example 1</i> | <i>Example 2</i> | <i>Example 3</i> |
|-----------|------------------|-------------------------------|-------------------------|
| PQ | green | 1 UPOV Color Group | (1-50) RHS Colour Chart |
| | yellow | 2 | |
| | red etc. | 3 | |

etc.

2.1 Petal: area of color 1

(small/medium/large)

2.2 Petal: area of color 2

(small/medium/large)

3.1 Petal: distribution of color 1

(at margins etc..)

3.2 Petal: distribution of color 2

(at margins, at base etc..)

4.1 Petal: shape of color 1

(continuous base color (1), spots (2); stripes (3))

4.2 Petal: shape of color 2

(continuous base color (1), spots (2); stripes (3))

5.1 Petal: border of color 1

(clearly defined to slightly diffused (1); moderately diffused (2); strongly diffused or continuous (3))

5.2 Petal: border of color 2

(clearly defined to slightly diffused (1); moderately diffused (2); strongly diffused or continuous (3))

(b) “Ground” / “Over” color

4. The TGP/14 Workshop agreed that for organs which have two independent layers of tissue containing color pigmentation (e.g. apple), the two layers could be described as follows:

GROUND COLOR: the color of the inner tissue layer, which in most cases develops first.

OVER COLOR: the color of the outer tissue layer, where this pigmentation is developed. In most cases this color appears after the ground color.

(c) “Main” Color

5. The TGP/14 Workshop concluded that the term “MAIN COLOR” should only be used where, for all varieties, there would always be a clearly identifiable main color, with a continuous distribution across the relevant organ, with other colors in the form of isolated spots, patches etc. e.g.

| | | | |
|-----------|--------------------------|---|------------------|
| 1. | Organ: main color | | |
| (+) | | | |
| | <i>Option 1</i> | | <i>Option 2</i> |
| PQ | green | 1 | RHS Colour Chart |
| | yellow | 2 | |
| | red | 3 | |
| | | | etc |

6. The TGP/14 Workshop agreed that the following standard explanation should be included in the Test Guidelines when using this approach for describing color:

“Ad. 1 The main color is the color which has a continuous dispersion across the surface of the organ; in general, it will also be the largest surface area.”

- with the addition of the following paragraph if considered appropriate for the characteristic:

“A photograph of the [relevant organ] should be provided in conjunction with the description in order to clarify the color pattern. However, a warning should be added to this photograph, explaining that the first intention is to represent the distribution of colors on flowers of the varieties more than the colors themselves. Such colors can be affected by the technology of the camera and the facilities used to display the photograph (printer, overhead projector, etc.).”

Example 1

| | |
|-----------|------------------------------|
| 2. | Organ: color of spots |
| (+) | |
| PQ | green yellow etc. |

Example 2

| | |
|-----------|---|
| 2. | Organ: form of secondary color |
| (+) | |
| PQ | spots spots and patches patches etc. |

7. The TGP/14 Workshop agreed that the scheme for determining color pattern terms, drafted by the experts from Japan, attached as the Appendix to this document, should be included in TGP/14 with any necessary modifications.

(d) Color Change Over Time

8. The Workshop noted the need to consider how to describe different color transition stages. The proposal below was discussed, but it was agreed that further discussion would be required in relation to that proposal, in particular by the Technical Working Party for Vegetables (TWV) in relation to the Test Guidelines for Pepper.

| | | |
|-----------|---|---|
| 1. | Fruit: number of different colors over time: | |
| QN | one | 1 |
| | two | 2 |
| | three | 3 |
| | four | 4 |

| | | |
|-----------|---|---|
| 2. | Fruit: succession of colors (only for varieties with more than two colors) | |
| PQ | green-yellow-red | 1 |
| | green-yellow-orange-red | 2 |
| | white-yellow-red | 3 |
| | white-yellow-orange-red | 4 |
| | yellow-orange-red | 5 |

- (e) Describing color patterns where those are in addition to the variegation in variegated varieties

9. The TGP/14 Workshop agreed on the following definition:

VARIEGATION: well defined areas of different colors, with less or no chlorophyll, especially as irregular patches or stripes on one organ.

10. The TGP/14 Workshop agreed that the following approaches might be used as appropriate on a case-by-case basis:

In cases where there are more colors than a main green color and a less green variegated part:

(a) exclude variegation from the general color pattern by defining variegation and indicating “(excluding variegation)” in the general pattern characteristics (where appropriate); or

(b) consider variegation within the general color pattern and indicate “(including variegation)”

- (f) Consideration of whether pigments, such as anthocyanin, should be considered as a color

11. The TGP/14 Workshop proposed:

(a) to refer to “anthocyanin coloration” where the pigment is known to be anthocyanin;

(b) to refer to “red pigment” in cases where the red pigment is not known or is not anthocyanin; or

(c) to refer to the name of the pigment if known.

12. With regard to describing anthocyanin/red coloration, the TGP/14 Workshop agreed, on a case-by-case basis, to decide whether coloration should be:

(a) considered as a color pattern; or

(b) excluded from the pattern observations, by indicating, e.g. “(excluding anthocyanin)”.

13. The TGP/14 Workshop agreed that TGP/14 should provide guidance on anthocyanin coloration characteristics, including: an explanation that, unlike other color characteristics, anthocyanin coloration is, in general, a quantitative characteristic; the possibility to describe intensity of anthocyanin coloration (weak, medium strong) and / or distribution of anthocyanin coloration; the importance of light intensity, position on plant, temperature etc. in observing anthocyanin coloration characteristics.

(f) “Conspicuousness”

14. The TGP/14 Workshop proposed that a characteristic for conspicuousness might be used where the individual factors could not be usefully described, e.g. for small organs (e.g. veins, hairs), or because they are not consistently expressed across the organ.

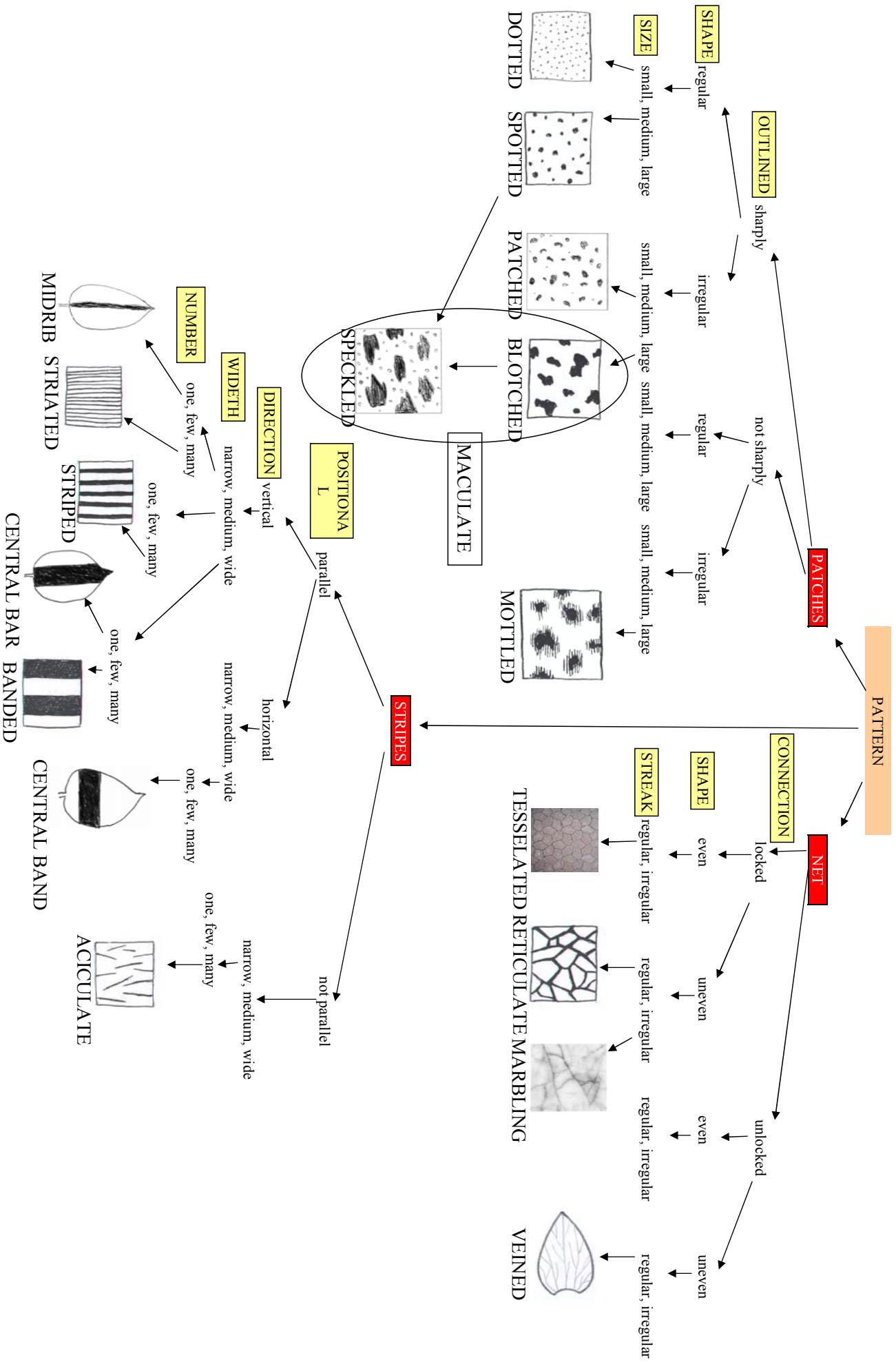
15. The TGP/14 Workshop agreed that an explanation of the meaning of “conspicuousness” in terms of the individual factors (e.g. color contrast, relative size etc.) should be provided.

(g) COLOR CHART

16. The TGP/14 Workshop noted that a new version of the RHS Colour Chart had been published and that it was understood that some color charts had been added in the new (2007) version. It agreed that document TGP/14, including Annexes I and II should be updated accordingly.

[Appendix to Annex II (a) follows]

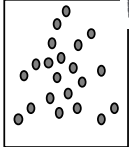
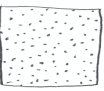
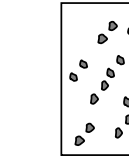

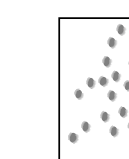
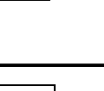

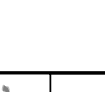
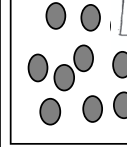
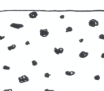
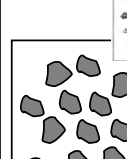

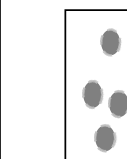

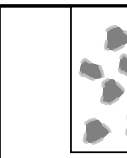

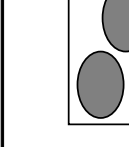
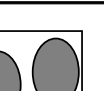
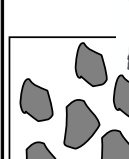


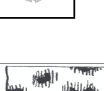


SCHEME FOR DETERMINING COLOR PATTERN TERMS

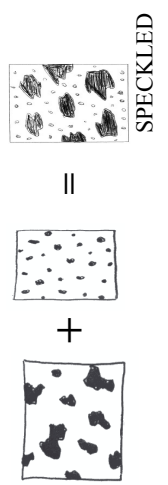


Annex 2

PATCHES
 outline
 shape
 size

(sharply / not sharply)
 (regular / irregular)
 (small / medium / large)

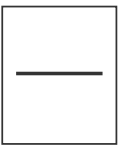

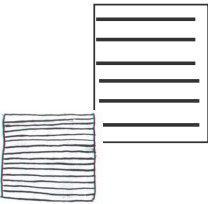
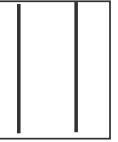


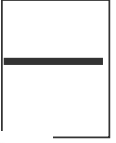
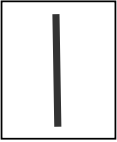
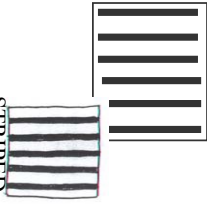
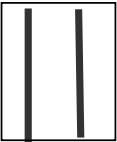




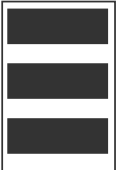

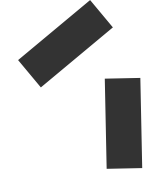
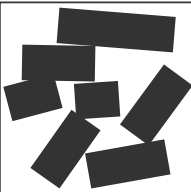
| OUTLINED SIZE \ SHAPE | sharply | | not sharply | |
|--------------------------|---|--|---|--|
| | regular | irregular | regular | irregular |
| small |   DOTTED |   SPOTTED |   BLOTCHED |   MOTTLED |
| medium |   DOTTED |   SPOTTED |   BLOTCHED |   MOTTLED |
| large |   DOTTED |   SPOTTED |   BLOTCHED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



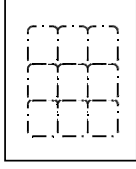
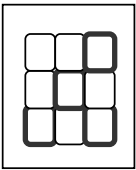
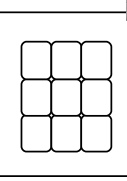

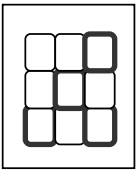



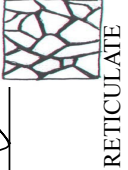


Annex 3

STRIPES

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

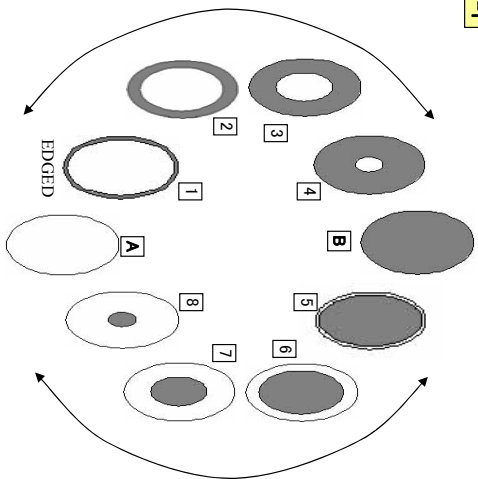
| width \ number | parallel | | | not parallel | | |
|----------------|--|--|--|--|---|--|
| | vertical | horizontal | vertical | horizontal | vertical | horizontal |
| narrow |  one |  one |  many |  many |  few |  many |
| medium |  MIDRIB |  one |  STRIPED |  many |  few |  ACICULATE |
| wide |  CENTRAL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

Annex 4

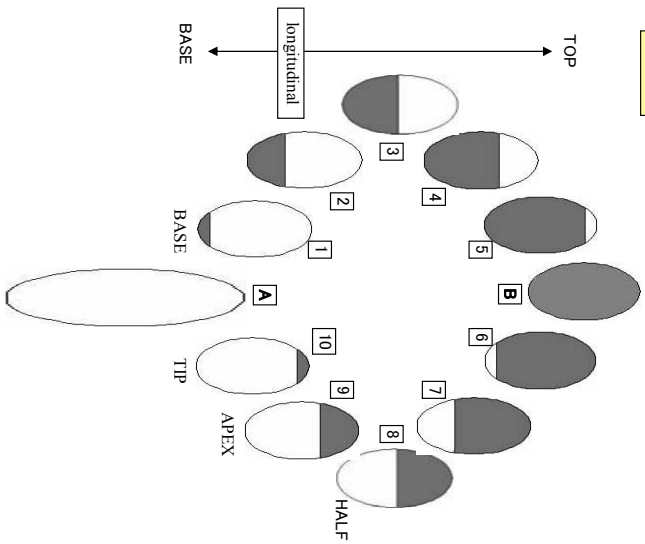
| NET connection shape/grid | (locked / unlocked) (even/ uneven) / (regular / irregular) | |
|---------------------------------|---|---|
| | locked | unlocked |
| shape grid | regular |  |
| | irregular |  |
| even | regular |   TESSELLATED |
| | irregular |    VEINED |
| uneven | regular |   RETICULATE |
| | irregular |   MARBLING |

DISTRIBUTION

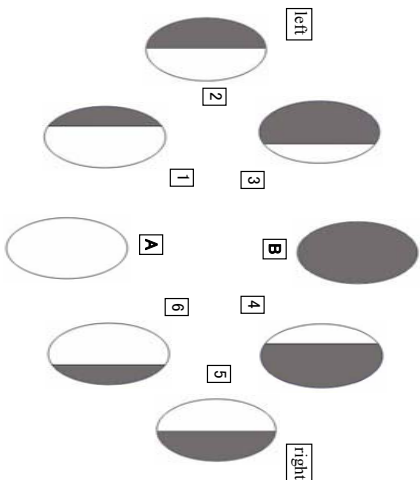
TYPE 1-1



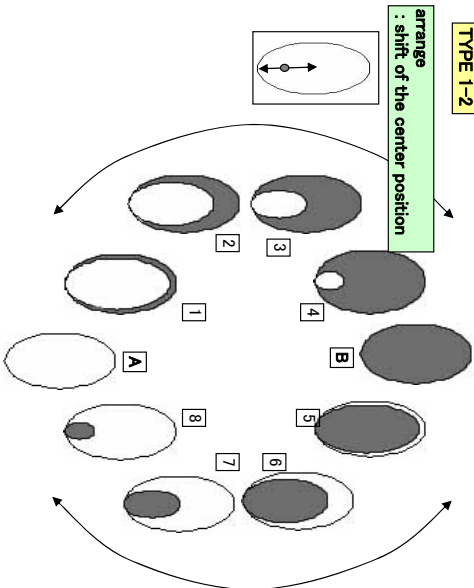
TYPE2-1



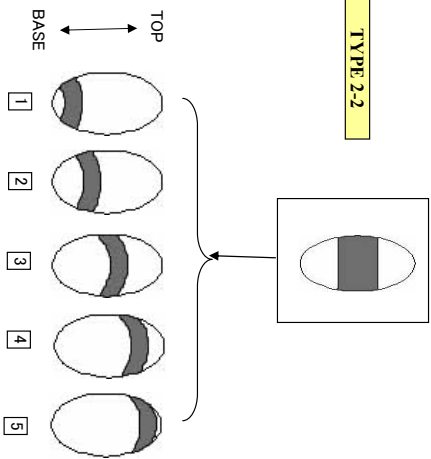
TYPE 3-1



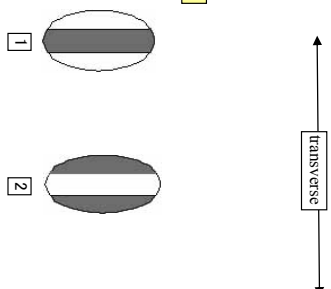
TYPE 1-2



TYPE 2-2

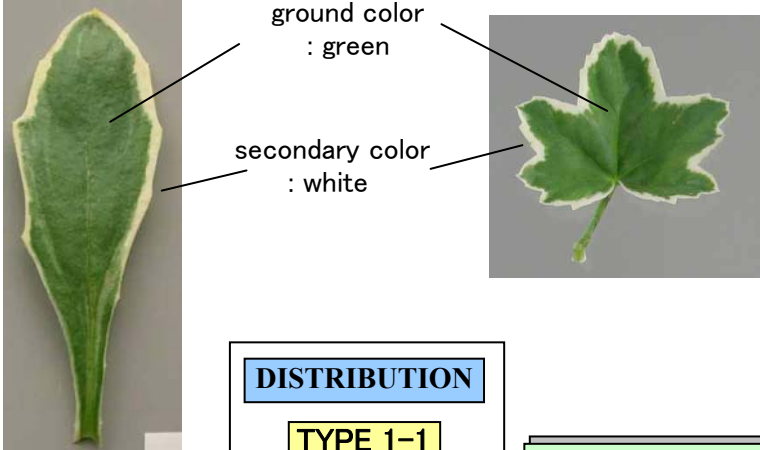


TYPE 3-2



EXAMPLE(LEAF)

Ex.1




ground color : green

secondary color : white


DISTRIBUTION

TYPE 1-1

6

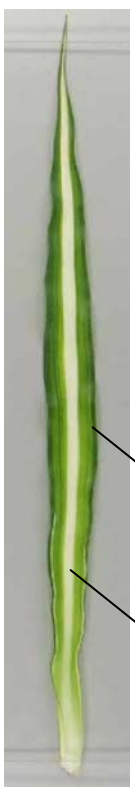


COLOR PATTERN



MARGINA ZONE

Ex.2



ground color : green

secondary color : white

DISTRIBUTION

TYPE 3-2

2

or

PATTERN

STRIPES


PARALLEL

VERTICAL

WIDE


ONE

COLOR PATTERN



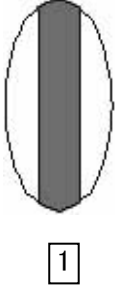
CENTRAL BAR

Ex.3



DISTRIBUTION

TYPE 3-2



1

or

PATTERN

STRIPES

PARALLEL

VERTICAL


MIDIUM

FEW

ground color : green

secondary color : white

Ex.4



ground color : green

secondary color : white

PATTERN

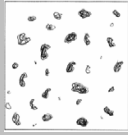
PATCHES

SHARPLY

IRREGULAR

MEDIUM

COLOR PATTERN



PATCHED

Ex.5



ground color
: green

secondary color
: yellow

tertiary color : red

DISTRIBUTION

TYPE 1-2



3

plus

PATTERN

STRIPES

PARALLEL

VERTICAL

NARROW

ONE

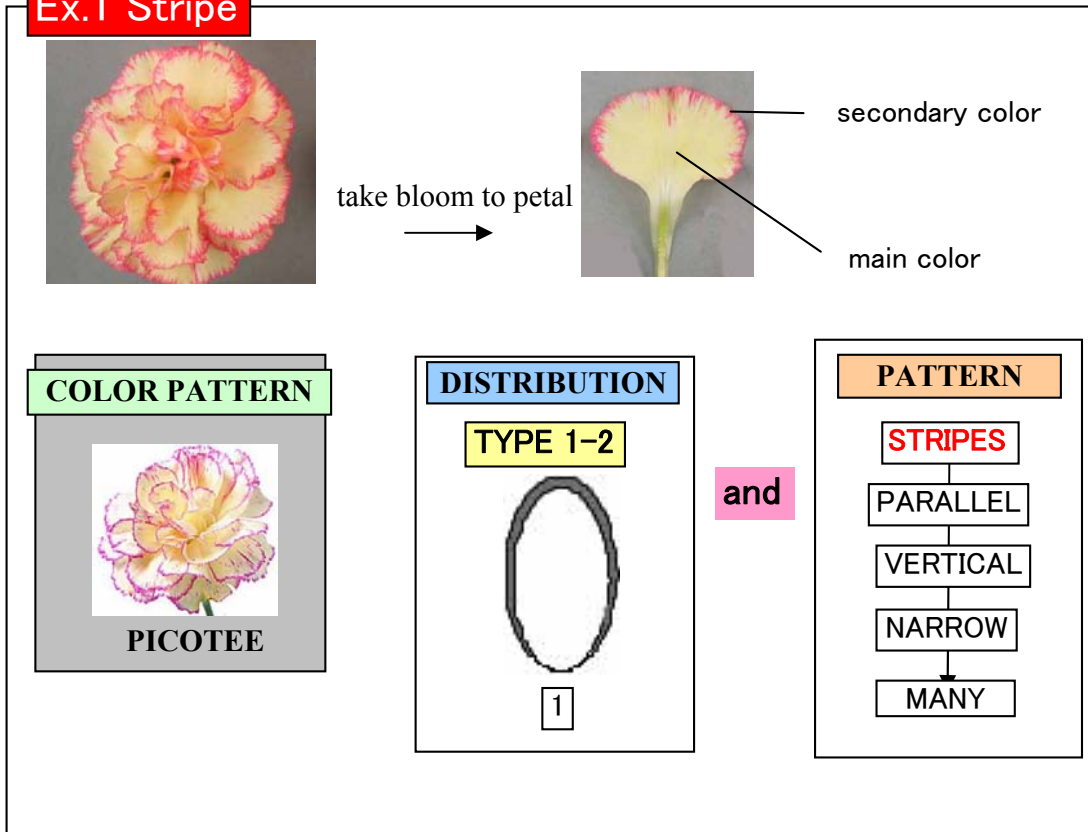
MID RIB : red

COLOR PATTERN

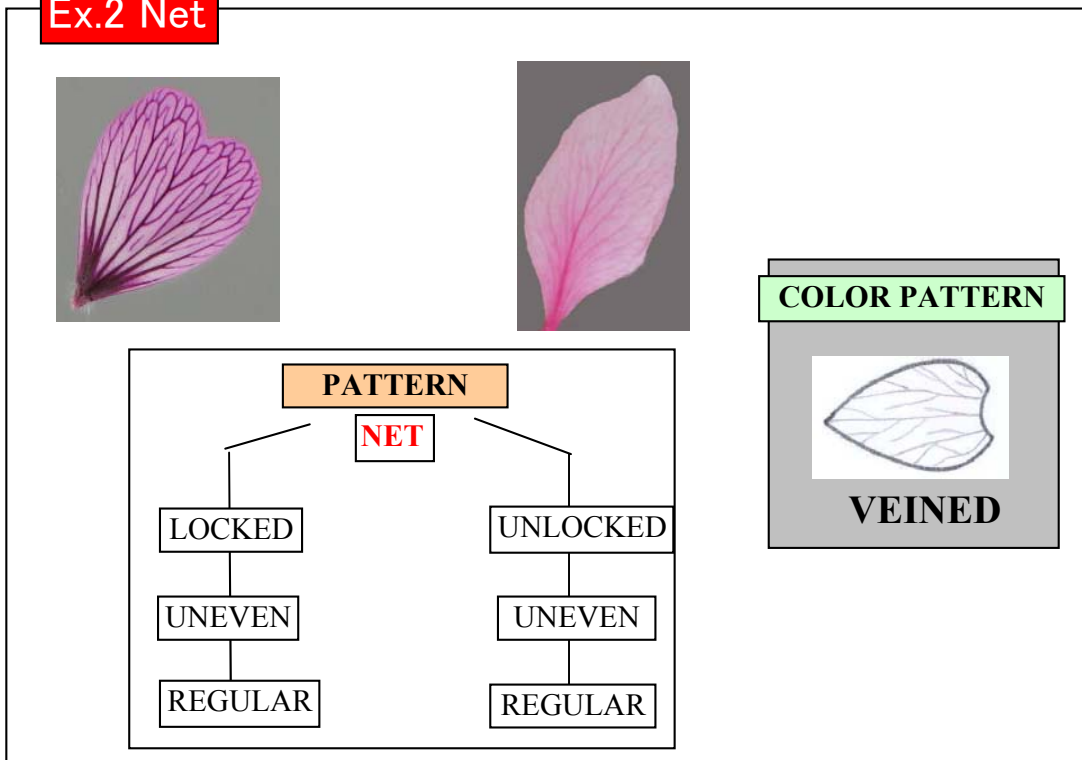


MIDRIB

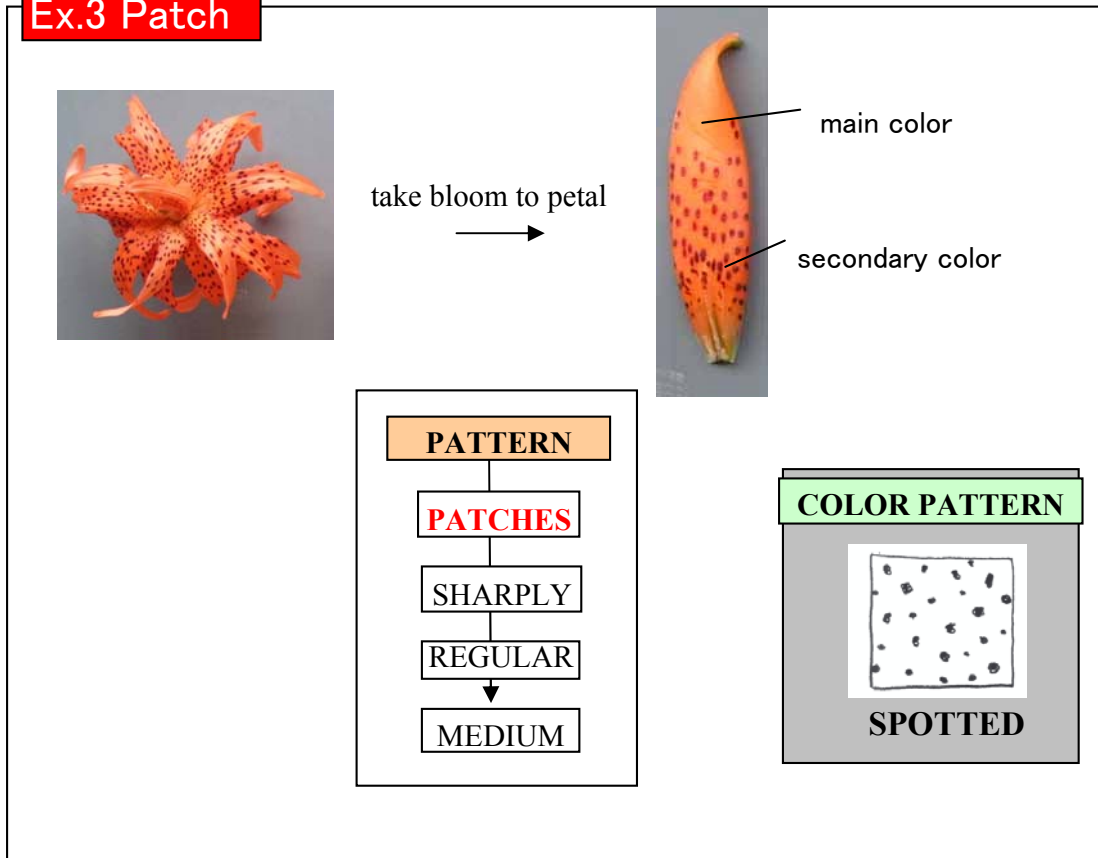
Ex.1 Stripe



Ex.2 Net



Ex.3 Patch



[Annex II (b) follows]

ANNEX II

(b) COMMENTS OF THE TECHNICAL WORKING PARTIES ON
DOCUMENT TGP/14/1 DRAFT 6 SECTION 2, SUBSECTION 3 “COLOR” AND ON THE
CONCLUSIONS OF THE WORKSHOP ON DOCUMENT TGP/14 SECTION 2,
SUBSECTION 3 “COLOR”

| | |
|-----|--|
| TWA | <p>The Technical Working Party for Agricultural Crops (TWA) proposed that document TGP/14/1 Section 2, Subsection 3 “Color” should include guidance on characteristics and states of expression for green color and, in particular, should avoid the creation of a separate characteristic for intensity of particular hues of green (c.f. draft Test Guidelines for Pea (document TG/7/10(proj.5): Chars. 7 and 8)</p> |
| TWF | <p>The Technical Working Party for Fruit Crops (TWF) supported the proposals set out in document TWF/39/3 Add. (Annex II to this document). With regard to characteristics for color changes over time, it noted that that matter would be discussed at its next session in relation to Peach. It was also noted that any such characteristics would need to fulfill the UPOV requirements for a characteristic.</p> <p>The TWF proposed that the example of anthocyanin coloration in the flesh of peach could be used to illustrate the need to consider both the intensity and distribution of anthocyanin coloration in some cases.</p> |
| TWO | <p>The Technical Working Party for Ornamental Plants and Forest Trees (TWO) agreed that the definitions of the components of color should be deleted from document TGP/14/1 Draft 6 Section 2, Subsection 3 “Color”, II.1, 2.1.</p> |
| | <p>The TWO agreed to start using the proposals set out in document TWF/39/3 Add. (Annex II to this document) in the preparation of draft Test Guidelines for 2009. It noted that it would be necessary to develop a new state of expression in color pattern characteristics to describe the area of color which was previously described as the “main” color, (e.g. continuous dispersion). It was also agreed that the example in 4.2 of document TWF/39/3 Add. (Annex II to this document) should be amended to read “Petal: shape of color [1]/[2] area.</p> <p>The TWO agreed that it would still be important to retain the possibility to have a characteristic for number of colors in order to have a simple overall characteristic, but which was not used as the starting point to describe color pattern. It also agreed that it would be important to retain the option, where appropriate, to describe the color pattern by describing colors in specified parts of the plants (e.g. color of margin, color of basal zone etc.).</p> <p>With regard to anthocyanin coloration, it was agreed that an example of characteristics should be included in TGP/14.</p> <p>In order to develop and test the approach to color characteristics proposed in document TWO/41/3 Add. (Annex II to this document), the TWO agreed to have an exercise on color in Alstroemeria, Canna and Phalaenopsis to see if characteristics based on that approach would be more effective than the traditional approach. The TWO agreed that the European Community</p> |

should coordinate a subgroup to develop proposals for an exercise to be conducted by the TWO, in which the two approaches would be evaluated. The experts present at the session, from Australia, France, Germany, Japan, Mexico, Netherlands (Kees Grashoff), New Zealand, United Kingdom and the Office of the Union agreed to participate in the subgroup. The first draft of characteristics, to be prepared by the European Community according to the proposed new approach, would be circulated to the subgroup for comment by October 31, 2008, with 4 weeks for comments. On the basis of the comments, a new draft would be prepared by the European Community and checked by the subgroup. A circular presenting the exercise would be sent by the Office of the Union to the TWO by the end of February 2008, with 6 weeks for completion². The completed exercises by the TWO experts would be sent to the European Community, with a copy to the Office of the Union. The European Community would then prepare a TWO document, containing the compiled results of the exercise, 6 weeks before the forty-second session of the TWO.

| | |
|-----|--|
| TWV | <p>The Technical Working Party for Vegetables (TWV) agreed that consideration should be given to including “flecking” as a color pattern in the scheme in the annex to document TWV/42/3 Add. (Annex II to this document).</p> <p>With regard to document TWV/42/3 Add. (Annex II to this document), “(d) Color Change Over Time”, the TWV agreed that characteristic 2 “Fruit: succession of colors” should be considered as a possible option for consideration in relation to relevant Test Guidelines.</p> |
|-----|--|

[End of Annex II and of document]

² The exercise on color in *Alstroemeria*, *Canna* and *Phalaenopsis* can be found on the TWO/42 website (http://www.upov.int/restrict/en/two/index_two42.htm).