

Technical Working Party for Agricultural Crops

Forty-Sixth Session

Hanover, Germany, June 19 to 23, 2017

Technical Working Party for Vegetables

Fifty-First Session

Roelofarendsveen, Netherlands, July 3 to 7, 2017

Technical Working Party for Ornamental Plants and Forest Trees

Fiftieth Session

Victoria, Canada, September 11 to 15, 2017

Technical Working Party for Fruit Crops

Forty-Eighth Session

Kelowna, Canada, September 18 to 22, 2017

Technical Working Party on Automation and Computer Programs

Thirty-Fifth Session

Buenos Aires, Argentina, November 14 to 17, 2017

TWP/1/1 Rev.

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TGP DOCUMENTS

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EXECUTIVE SUMMARY

1. The purpose of this document is to provide an overview of revisions of TGP documents.
2. The Technical Working Parties (TWPs) are invited to note:
 - (a) the revisions to documents TGP/7, TGP/8 and TGP/14 agreed by the Technical Committee (TC), as set out in paragraphs 6 to 14 and Annexes I and II to this document;
 - (b) the proposals for future revisions of TGP documents to be discussed by the TWPs at their sessions in 2017 which will be dealt with under separate documents;
 - (c) the program for the development of TGP documents, as set out in the Annex to this document.
3. The following abbreviations are used in this document:

CAJ:	Administrative and Legal Committee
TC:	Technical Committee
TC-EDC:	Enlarged Editorial Committee
TWA:	Technical Working Party for Agricultural Crops
TWC:	Technical Working Party on Automation and Computer Programs
TWF:	Technical Working Party for Fruit Crops
TWO:	Technical Working Party for Ornamental Plants and Forest Trees
TWV:	Technical Working Party for Vegetables
TWPs:	Technical Working Parties

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BACKGROUND

5. The approved TGP documents are published on the UPOV website at http://www.upov.int/upov_collection/en/.

REVISIONS AGREED BY THE TECHNICAL COMMITTEE

TGP/7: Development of Test Guidelines

- (i) *Drafter's Kit for Test Guidelines*

6. The TC, at its fifty-third session, held in Geneva from April 3 to 5, 2017, considered document TC/53/15 "Revision of document TGP/7: Drafter's Kit for Test Guidelines" (see document TC/53/31 "Report", paragraphs 107 to 109).

7. The TC agreed the proposed revisions of document TGP/7 “Development of Test Guidelines” to reflect the introduction of the web-based TG template, as set out in Annex I to this document, and agreed that a revised version of document TGP/7 should be presented for adoption by the Council in 2018 on that basis, subject to approval by the Administrative and Legal Committee (CAJ).

8. The TC noted that Annex 4 of document TGP/7: “Collection of approved characteristics” would be superseded by the web-based TG template and agreed that there should be no change to the basis for including characteristics in the collection, i.e. only characteristics which had been included in adopted Test Guidelines after the adoption of document TGP/7 (“approved characteristics”) for preparing new Test Guidelines would be searchable.

(ii) Presentation of different types of example varieties

9. The TC, at its fifty-third session, held in Geneva from April 3 to 5, 2017, agreed that the guidance in document TGP/7 “Development of Test Guidelines”, GN 28, Section 3.2: “Different types of variety” should be revised in order to indicate that a comma could be used to separate different types of example varieties (e.g. (w) winter type, (s) spring type); and that the indication of type should precede the denomination of each example variety (e.g. (w) winter 1, (w) winter 2, (s) spring 1, (s) spring 2) (see document TC/53/31 “Report”, paragraphs 107 to 110).

TGP/8: Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability

(iii) Examining DUS in Bulk Samples

10. The TC, at fifty-third session, held in Geneva from April 3 to 5, 2017, considered document TC/53/17 “Examining DUS in bulk samples” (see document TC/53/31 “Report”, paragraphs 113 to 116).

11. The TC considered the proposed guidance for examining DUS in bulk samples as presented in the Annex to document TC/53/17, for inclusion in a future revision of document TGP/8.

12. The TC recalled that it had agreed the following list of criteria as a basis for the development of future guidance:

- (a) “the characteristic should fulfill the requirements of a characteristic, as set out in the “General Introduction to the Examination of Distinctness, Uniformity and Stability and the Development of Harmonized Descriptions of new Varieties of Plants” (see document TG/1/3, Section 4.2.1);
- (b) “there should be knowledge of the genetic control of the characteristic;
- (c) “the suitability of the characteristic should be validated through an initial assessment of uniformity on individual plants;
- (d) “information on plant-by-plant variation and differences between growing cycles should be provided (data from routine measurement of the characteristic from different years);
- (e) “a full description of the method of assessment should be provided;
- (f) “states of expression should be based on existing variation between varieties considering environmental influence.”

13. The TC endorsed the above guidance and agreed that it would not be feasible to develop further guidance for the time being.

TGP/14: Glossary of Terms Used in UPOV Documents

(iv) Illustrations for shape and ratio characteristics

14. The TC, at its fifty-third session, held in Geneva from April 3 to 5, 2017, agreed to revise document TGP/14: Section 2: Subsection 2: Shapes and structures to amend the “grid for position of broadest part and width/ratio” presented in Alternative 2, to remove the wording on “ratio” and to display “relative width” in a separate column from the scale of “broad to narrow”, as presented in Annex II to this document (see document TC/53/31 “Report”, paragraph 141).

PROPOSED FUTURE REVISIONS OF TGP DOCUMENTS

15. The TC, at its fifty-third session, agreed that the following matters for possible future revision of TGP documents should be considered by the TWPs at their sessions in 2017 (see document TC/53/31 "Report", paragraphs 107 to 145):

TGP/5: Section 1: Model Administrative Agreement for International Cooperation in the Testing of Varieties

- (i) *Confidentiality of molecular information*
See document TWP/1/9

TGP/7: Development of Test Guidelines

- (ii) *Duration of DUS tests in the fruit sector*
See document TWP/1/11
- (iii) *Characteristics which only apply to certain varieties*
See document TWP/1/12

TGP/8: Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability

- (iv) *The Combined-Over-Years Uniformity Criterion (COYU)*
See document TWP/1/13
- (v) *Data Processing for the Assessment of Distinctness and for Producing Variety Descriptions*
See document TWP/1/15
- (vi) *Method for more than one single test (year)*

16. The TC, at its fifty-third session, held in Geneva from April 3 to 5, 2017, considered document TC/53/19 "Revision of document TGP/10: New section: Assessing uniformity by off-types on basis of more than one growing cycle or on the basis of sub-samples" and agreed that, in conjunction with the revision of document TGP/10, the guidance in document TGP/8/2: Part II: 8: "The method of uniformity assessment on the basis of off-types" should be revised to reflect the practice within members of the Union on the use of methods for more than one single test (year) (see document TC/53/31 "Report", paragraph 125).

17. Document TGP/8: Part II: Section 8: Subsection 8.1: "Fixed population standard" currently reads as follows:

"8.1.7 Method for more than one single test (year)

"8.1.7.1 Introduction

"8.1.7.1.1 Often a candidate variety is grown in two (or three years). The question then arises of how to combine the uniformity information from the individual years. Two methods will be described:

- (a) "Make the decision after two (or three) years based on the total number of plants examined and the total number of off-types recorded. (A combined test).
- (b) "Use the result of the first year to see if the data suggests a clear decision (reject or accept). If the decision is not clear then proceed with the second year and decide after the second year. (A two-stage test).

"8.1.7.1.2 However, there are some alternatives (e.g. a decision may be made in each year and a final decision may be reached by rejecting the candidate variety if it shows too many off-types in both (or two out of three years)). Also there are complications when more than one single year test is done. It is therefore suggested that a statistician should be consulted when two (or more) year tests have to be used."

TGP/10: Examining uniformity

- (vii) *Assessing Uniformity by Off-Types on Basis of More than One Growing Cycle or on the Basis of Sub-Samples*
See document TWP/1/17

TGP/14: Glossary of Terms Used in UPOV Documents

(viii) *Illustrations for shape and ratio characteristics*
See document TWP/1/18

(ix) *UPOV color groups*

18. The TC, at its fifty-third session, held in Geneva from April 3 to 5, 2017, considered document TC/53/5 "TGP documents" and noted the information from the TWO that some charts of the 1986 Edition and later versions of the RHS Colour Chart had different colors than the same charts in the Sixth Edition of that document. The TC endorsed the proposal by the TWO that document TGP/14 "Glossary of terms used in UPOV documents" should be revised to replace the current list of UPOV Color Groups by a new list created on the basis of the Sixth Edition of the RHS Colour Chart (see document TC/53/31 "Report", paragraphs 142 to 144).

19. The TC noted the discussions in the TWO on whether the UPOV color groups for the RHS Colour Charts could be used for grouping of varieties and organization of the growing trial and that the TWO had agreed that the difference between UPOV color groups was smaller than would be appropriate for excluding varieties from comparison in a growing trial.

20. The TC noted that the TWO had requested the expert from Germany, with support by the experts from Australia, Canada, European Union, the Netherlands, New Zealand and the United Kingdom, to draft guidance on the factors to be considered for creating color groups for grouping of varieties and organizing the growing trial.

21. Further progress on the development of the new list of UPOV color groups for the Sixth Edition of the RHS Colour Chart will be reported to the TWO at its fiftieth session, to be held in Victoria, British Columbia, Canada, from September 11 to 15, 2017.

PROGRAM FOR THE DEVELOPMENT OF TGP DOCUMENTS

22. The Annex to this document presents the program for the development of TGP documents as agreed by the TC, as its fifty-third session (see document TC/53/31 "Report", paragraphs 107 to 145).

23. *The Technical Working Parties (TWPs) are invited to note:*

(a) *the revisions to documents TGP/7, TGP/8 and TGP/14 agreed by the Technical Committee (TC), as set out in paragraphs 6 to 14 and Annexes I and II to this document;*

(b) *the proposals for future revisions of TGP documents to be discussed by the TWPs at their sessions in 2017 which will be dealt with under separate documents;*

(c) *the program for the development of TGP documents, as set out in the Annex to this document.*

[Annexes follow]

REVISION OF DOCUMENT TGP/7 "DEVELOPMENT OF TEST GUIDELINES"
PREVIOUSLY AGREED BY THE TC

~~Strikethrough~~ highlighted indicates deletion from the text and
underlining highlighted indicates insertion to the text.

Section 1: Introduction

1.3 Structure of TGP/7

[...]

3.1 The TG Template Structure and Universal Standard Wording

"This section introduces the ~~"TG Template"~~ which provides the basic Test Guidelines structure and also the universal standard wording which ~~that~~ is currently considered to be appropriate for all Test Guidelines, as provided. ~~The TG Template itself is provided~~ in Annex 1 of this document."

3.2 Additional Standard Wording (ASW)

"~~The 'TG Template'~~ Annex I contains the universal standard wording which ~~that~~ is currently considered to be appropriate for all Test Guidelines. However, this section explains that UPOV has developed additional standard wording (ASW) which should be used, where appropriate, for the Test Guidelines concerned. The additional standard wording is provided in Annex 2 of this document."

3.3 Guidance Notes (GN) for the TG Template

"There are many aspects of the Test Guidelines where the individual drafter's experience and knowledge are needed for preparing the Test Guidelines. This includes, for example, the selection of appropriate ASW, trial design, the identification of characteristics and selection of example varieties. The purpose of this section is to provide guidance notes on how to proceed in a harmonized way for such aspects. These guidance notes are presented in Annex 3 of this document and include guidance on the use of the Collection of Approved Characteristics which have been included in adopted Test Guidelines [after the adoption of document TGP/7] ("approved characteristics") presented in Annex 4 (see GN 17)."

[...]

Section 2: Procedure for the Introduction and revision of UPOV Test Guidelines

[...]

2.2.4.4 Preparation of the Draft(s) by the Leading Expert with the Subgroup

The web-based TG Template is to be used for preparing draft UPOV Test Guidelines (see: <https://www3.wipo.int/upovtg/>).

"In advance of the TWP session, the Leading Expert should prepare a preliminary draft of the Test Guidelines ("Subgroup draft") for comments by the subgroup using the web-based TG Template. ~~In the case of Test Guidelines being developed by more than one TWP, the subgroup draft should be circulated at the same time to the interested experts in all relevant TWPs.~~

The subgroup of interested experts participating in the drafting of the Test Guidelines will be invited to provide comments to the Leading Expert using the web-based TG template.

On the basis of the comments received from the subgroup, the Leading Expert should establish a first draft for the TWP(s). This draft is sent provided to the Office, which will produce a document for distribution to the members of the TWP(s) concerned for discussion at their session(s). Prior to the TWP session, the Office will make a preliminary check that the draft has been prepared according to the guidance provided in document TGP/7 and, in particular, that it conforms with the TG/Template (Annex 1). A result of that check will be provided to the Leading Expert at least one week before the session.

In the case of Test Guidelines which have been considered by the relevant TWP(s) (Step 5) and where the responsible TWP has requested amendment of the draft, the Leading Expert should, after consulting the members of the subgroup, establish a further draft for consideration at the following TWP meeting in the manner explained above. To assist Leading Experts in preparing draft Test Guidelines the following Guidance information and materials to assist Leading Experts in preparing draft Test Guidelines is provided on the UPOV web site: (see: http://www.upov.int/resource/en/dus_guidance.html), in an area of

~~the UPOV website restricted to Leading Experts of Test Guidelines (TG Drafters' Webpage). The TG Drafters' Webpage includes the following information, some elements of which are included in the TG Drafter's Kit (see Section 4.3):~~

~~“(a) General information:~~

- ~~“(i) Practical guide for drafters of Test Guidelines (“Practical Guide”) General introduction to DUS;~~
- ~~“(ii) The electronic TG Template (TGP/7: Annex 1) TGP documents;~~
- ~~“(iii) Collection of Approved Characteristics (TGP/7: Annex 4) Test Guidelines;~~
- ~~“(iv) Adopted Test Guidelines in Word format Practical Technical Knowledge;~~
- ~~“(v) TGP/14 “Glossary of Terms Used in UPOV Documents” Cooperation in examination;~~

~~“(b) TWP specific information:~~

- ~~“(vi) Leading Expert and dates for the preparation of draft Test Guidelines Web-based TG template;~~
- ~~“(vii) E-mail addresses of Subgroup of interested experts Additional characteristics;~~
- ~~“(viii) Word versions of draft Test Guidelines presented at the previous TWP session (where appropriate); Test Guidelines under development (TC/xx/2) and~~
- ~~“(ix) TWP comments (extracted from the TWP report) on the draft Test Guidelines presented at the previous TWP session (where appropriate). Summary information on quantity of plant material required on adopted Test Guidelines; and~~
- ~~(x) TGP/14 “Glossary of Terms Used in UPOV Documents”~~

[...]

2.2.5.3 Requirements for draft Test Guidelines to be considered by the Technical Working Parties

“Unless otherwise agreed at the TWP session, or thereafter by the TWP Chairperson, the timetable for the consideration of draft Test Guidelines by the Technical Working Parties is as follows:

Action	Latest date before the TWP session
Circulation of Subgroup draft by Leading Expert:	14 weeks
Comments to be received from Subgroup:	10 weeks
Sending <u>Provision</u> of draft to the Office by the Leading Expert:	6 weeks
Posting of draft on the website by the Office:	4 weeks

“In cases where *either* of the deadlines for circulation of the Subgroup draft or for the sending provision of the draft to the Office by the Leading Expert is not met, the Test Guidelines would be withdrawn from the TWP agenda and the Office would inform the TWP accordingly at the earliest opportunity (i.e. not later than 4 weeks before the TWP session). In those cases where draft Test Guidelines are withdrawn from the TWP agenda because of failure by the Leading Expert to meet the relevant dates, it would be possible for specific matters concerning those Test Guidelines to be discussed at the TWP session. However, to consider specific matters it would be necessary for a document to be provided to the Office at least 6 weeks before the TWP session.”

[...]

Section 3 Guidance for Drafting Test Guidelines

3.1 The TG ~~Template~~ Structure and Universal Standard Wording

~~“3.1.1 UPOV has developed a template (the “TG Template”) containing the standard structure and universal standard wording which that is appropriate for all UPOV Test Guidelines (“Test Guidelines”) and which is prepared in the appropriate format. The TG Template This is presented in Annex 1 and should be used as the starting point for the development or revision of all Test Guidelines.~~

~~“3.1.2 In addition to the TG Template, further guidance is provided for drafters of Test Guidelines on how to develop individual Test Guidelines from the TG Template. This is provided is provided by means of additional standard wording (ASW) and guidance notes (GN), and indications are provided within the TG Template in Annex I on where this further guidance is available (see Sections 3.2 and 3.3).”~~

3.2 Additional Standard Wording (ASW) ~~for the TG Template~~

~~“3.2.1 As explained above, the TG Template contains the universal standard wording which is appropriate for all Test Guidelines. However, In addition to the universal standard wording, UPOV has developed additional standard wording which should be used, where appropriate, for the Test Guidelines concerned. For example, for Test Guidelines where the material is supplied in the form of seed, there is standard wording concerning the quality of the seed to be supplied. Of course, this standard wording for seed~~

should not be included in Test Guidelines where, for example, the material is to be provided as tubers and for this reason such additional standard wording is not included ~~in the TG Template as universal standard wording~~. The additional standard wording is presented in Annex 2, Additional Standard Wording (ASW) for the TG Template.

“3.2.2 Where such additional standard wording is available, an insert is highlighted in ~~the TG Template Annex I~~ at the appropriate location, e.g.

“**ASW 1** (TG Template: Chapter 2.3) – seed quality requirements)”

3.3 Guidance Notes (GN) ~~for the TG Template~~

“3.3.1 There are many aspects of the Test Guidelines where the individual drafter’s experience and knowledge are needed for preparing the Test Guidelines. This includes, for example, the selection of appropriate ASW, trial design, the identification of characteristics and the selection of example varieties. In such situations general guidance on how to proceed in a harmonized way, in line with the experience accumulated by UPOV through the crop experts, is provided by a series of guidance notes presented in Annex 3, Guidance Notes (GN) ~~for the TG Template~~.

“3.3.2 Where such guidance is available for drafters, an insert is highlighted in ~~the TG Template Annex I~~ at the appropriate location, e.g.

“**GN 5** (TG Template: Chapter 1.1) – Subject of the Test Guidelines: Family Name)”

3.4 [Web-based TG Template]

3.4.1 UPOV has developed the Web-based TG Template (see: <https://www3.wipo.int/upovtg/>) to implement the guidance for drafting Test Guidelines provided in document TGP/7.

Section 4: Development of individual authorities’ test guidelines

[...]

4.3 ~~Drafter’s Kit for the Test Guidelines~~ Guidance for drafters of individual authorities test guidelines

“To assist individual authorities’ in the drafting of their test guidelines, UPOV has provided certain practical information on ~~the restricted area of~~ the UPOV website (http://www.upov.int/restricted_temporary/twptg/en/drafters-kit.html ~~http://www.upov.int/resource/en/dus_guidance.html~~) in the form of a “TG Drafter’s Kit”. ~~To assist individual authorities in converting the Test Guidelines into a suitable form for their own use, the TG Drafter’s Kit includes all adopted Test Guidelines in Word format. Additional characteristics and states of expression notified to the Office of the Union in accordance with document TGP/5 Section 10 “Notification of Additional Characteristics and States of Expression are also provided. To provide assistance for the development of individual authorities’ test guidelines in the absence of Test Guidelines, the TG Drafter’s Kit webpage includes, for example, an electronic version of the TG Template (document TGP/7, Annex 1 and the “Collection of Approved Characteristics”, document TGP/7, Annex 4).”~~

Annex 1: TG ~~Template~~ Structure and Universal Standard Wording

[...]

4.1.5 Method of Observation

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

[...]

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<p>Char. No. { GN 24 } Growth stage { GN 18 } Presentation of Characteristics: Heading of a characteristic</p> <p>{ GN 13.1, 13.4 } Asterisked characteristics { GN 25 } Recommendations for conducting the examination { GN 22 } Explanation for individual characteristics</p>							
{ GN 21 } Type of expression of the characteristic	{ GN 23 } Explanations covering several characteristics	{ GN 19 } Presentation of characteristics: General presentation of states of expression { GN 20 } Presentation of characteristics: States of expression according to type of expression of a characteristic				{ GN 28 } Example varieties	

English				français		deutsch	español	Example Varieties Exemples Beispielsorten Variedades ejemplo	Note/ Nota
1	2	3	4	5	6	7			
Name of characteristics in English { GN 18 Presentation of Characteristics: Heading of a characteristic }				Nom du caractère en français		Name des Merkmals auf Deutsch	Nombre del carácter en español		
states of expression { GN 19 Presentation of characteristics: General presentation of states of expression } { GN 20 Presentation of characteristics: States of expression according to type of expression of a characteristic }				types d'expression		Ausprägungsstufen	tipos de expresión	{ GN 28 Example varieties }	

Legend

- 1 Characteristic number
- 2 (*) Asterisked characteristic – see Chapter 6.1.2
{ GN 13.1, 13.4 Asterisked characteristics }
- 3 Type of expression
QL Qualitative characteristic – see Chapter 6.3
QN Quantitative characteristic – see Chapter 6.3
PQ Pseudo-qualitative characteristic – see Chapter 6.3
{ GN 21 Type of expression of the characteristic }
- 4 Method of observation (and type of plot, if applicable)
MG, MS, VG, VS – see Chapter 4.1.5
{ GN 25 Recommendations for conducting the examination }
- 5 (+) See Explanations on the Table of Characteristics in Chapter 8.2
{ GN 22 Explanation for individual characteristics }
- 6 (a)-{x} See Explanations on the Table of Characteristics in Chapter 8.1
{ GN 23 Explanations covering several characteristics }
- 7 Growth stage key
{ GN 24 Growth stage }

Annex 2: Additional Standard Wording (ASW) for the TG Template

“This section presents the additional standard wording (ASW) which can be added to the universal standard wording within ~~the TG Template~~ (Annex 1). The numbering refers to the numbering in ~~the TG Template Annex I.~~”

24. The header of all additional standard wording should be amended to delete references to “TG Template”, as follows:

Example:

“ASW 0 (~~TG Template~~ Chapter 1.1) – Coverage of types of varieties in Test Guidelines”

“ASW 4 (~~TG Template~~ Chapter 3.3) – Conditions for conducting the examination

“Information for conducting the examination of particular characteristics

“(a) Stage of development for the assessment

“The optimum stage of development for the assessment of each characteristic is indicated by a reference in ~~the second column of~~ the Table of Characteristics. The stages of development denoted by each reference are described in Chapter 8 [...].”

“(b) Type of plot for observation

“The following text may, for example, be added to appropriate Test Guidelines:

“The recommended type of plot in which to observe the characteristic is indicated by the following key in the ~~second column of the~~ Table of Characteristics:

- “A: spaced plants
- “B: row plot
- “C: special test

[...]

ASW 12.1 (~~TG Template: Chapter 8~~) – Explanations covering several characteristics

“8.1 Explanations covering several characteristics

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

- (a)
- (b) etc.”

[...]

Annex 3: Guidance Notes (GN) ~~for the TG Template~~

“This section presents guidance notes (GN) for drafters of Test Guidelines for use when developing ~~the TG Template (Annex 1) into~~ specific Test Guidelines. The numbering refers to the numbering in ~~the TG Template Annex I.~~”

25. The header of all Guidance notes should be amended to delete references to “TG Template”, as follows:

Example:

“GN 0 (~~TG Template: Cover page; Chapter 8~~) – Use of proprietary text, photographs and illustrations in Test Guidelines”

[...]

“GN 13 Characteristics with specific functions”

“1. Asterisked characteristics (~~TG Template: Chapter 7: column 1, header row 2~~)”

“1.1 The General Introduction (Chapter 4.8: Table: Functional Categories of Characteristics) states that asterisked characteristics are “characteristics that are important for the international harmonization of variety descriptions.” The criteria for selecting a characteristic as an asterisked characteristic are that: [...].”

“GN 17 (~~TG Template: Chapter 7~~) – Presentation of Characteristics: Approved characteristics”

“A collection of characteristics, with their corresponding states of expression, which have already been approved for inclusion in existing Test Guidelines after the adoption of document TGP/7 (“approved characteristics”), is presented in Annex 4: “Collection of Approved Characteristics” provided in the web-based TG template. There are two main purposes for developing this collection: Firstly, it helps to ensure that the states of expression used for the same or similar characteristics included in Test Guidelines, are harmonized as far as possible; Secondly, the characteristics presented in the collection have already been translated into the UPOV languages. Thus, Test Guidelines utilizing approved characteristics from Annex 4 will cost UPOV less and are less likely to experience delays in presentation for adoption.

“Drafters of Test Guidelines are invited to search the collection the approved characteristics for the characteristic which they wish to use. If the appropriate characteristic, and its corresponding states of expression, are found this can be copied directly into selected for the new Test Guidelines. However, it

should be remembered that what may appear to be very similar characteristics in different types of plant, or different organs of the same plant, may in fact be under different types of genetic control. Thus, for example, in one type of plant, or one organ, the characteristic "profile" might be a qualitative characteristic e.g. straight (1), curved (2) but in another type of plant, or organ, it might be a quantitative characteristic e.g. straight or slightly curved (1), moderately curved (2), strongly curved (3).

"In cases where the required characteristic is not ~~present in the collection~~ an approved characteristic, guidance is provided in GN 18, GN 19 and GN 20."

"GN 18 ~~(TG Template: Chapter 7: column 3)~~ – Presentation of Characteristics: Heading of a characteristic"

[...]

"GN 19 ~~(TG Template: Chapter 7: column 3)~~ – Presentation of characteristics: General presentation of states of expression"

"GN 20 ~~(TG Template: Chapter 7: column 3)~~ – Presentation of characteristics: States of expression according to type of expression of a characteristic"

"GN 21 ~~(TG Template: Chapter 7: column 1, state of expression row 1)~~ – Type of expression of the characteristic"

"GN 22 ~~(TG Template: Chapter 7: column 1, header row 3)~~ – Explanations for individual characteristics"

"GN 23 ~~(TG Template: Chapter 7: column 2, state of expression row 4)~~ – Explanations covering several characteristics"

"In cases where an explanation applies to several characteristics (e.g. part of the plant on which to observe particular characteristics, illustration of plant parts, etc.), particularly for characteristics that are not immediately consecutive in the Table of Characteristics, a note is placed ~~in column 2 above the characteristic header~~ and the explanation provided in Chapter 8.1, according to ASW 11. In the case of indications of the stage of observation, those indications should be made according to GN 24 "Growth stage"."

"GN 24 ~~(TG Template: Chapter 7: column 2, header row 4)~~ – Growth stage"

"GN 25 ~~(TG Template: Chapter 7: column 2, header row 1 or 2)~~ – Recommendations for conducting the examination"

"This box provides the key for guidance on conducting the examination. For example, recommendations on the method of observation (e.g.: visual assessment or measurement; observation of single plants or a group of plants) ~~or~~ and type of plot (e.g.: spaced plants; row plot; drilled plot; special test) may be provided. ASW 4(b) provides possible standard wording."

"GN 26 ~~(TG Template: Chapter 7: column 4)~~ – Order of characteristics in the Table of Characteristics"

26. Annex 4 to document TGP/7 "Collection of approved characteristics should be deleted as the database of characteristics in UPOV Test Guidelines is included in the web-based TG Template.

Annex 4: Collection of approved characteristics

~~"1. The Collection of Approved Characteristics ("Collection") presents characteristics, with their corresponding states of expression, which have already been approved for inclusion in existing Test Guidelines. Drafters are invited to search this collection for the characteristic which they wish to use. If the appropriate characteristic and its corresponding states of expression are found, this can be copied directly into the new Test Guidelines. However, it should be remembered that what may appear to be very similar characteristics in different types of plant, or different organs of the same plant, may in fact be under different types of genetic control. Thus, for example, in one type of plant, or one organ, the characteristic "profile" might be a qualitative characteristic e.g. straight (1), curved (2) but in another type of plant, or organ, it might be a quantitative characteristic e.g. straight or slightly curved (1), moderately curved (2), strongly curved (3).~~

~~"2. The Collection presents the characteristic as it is included in the relevant Test Guidelines. In addition, for certain characteristics, it provides information on the Test Guidelines from which it has been taken. This information is placed in the blank "header" space in the column for example varieties since this entire column is likely to be "cleared" by the drafter after pasting into his new draft because the example varieties will not be relevant.~~

~~“3. Certain characteristics contained in adopted UPOV Test Guidelines may be omitted from the Collection where considered appropriate by the Technical Committee, in particular on the basis of recommendations by the Enlarged Editorial Committee (TC-EDC).”~~











~~“The Collection of Approved Characteristics is published on the UPOV Website:
http://www.upov.int/restricted_temporary/twptg/en/collection.doc”~~

[Annex II follows]

REVISION OF DOCUMENT TGP/14 PREVIOUSLY AGREED BY THE TC

Illustrations for shape and ratio characteristics

The TC agreed that the table in document TGP/14: Section 2: Subsection 2: Shapes and structures (Alternative 2) should be amended to read as follows (~~highlighting and strikethrough~~ for deletions and highlighting and underline for addition):

		← broadest part →			
		(below middle)	at middle	(above middle)	
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center; margin-bottom: 5px;"> → relative width </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> ← width (ratio-length/width) </div> <div style="display: flex; align-items: center;"> ← broad (low) </div> </div>			 6 linear		
			 5 oblong	 8 oblanceolate	 9 spatulate
	 1 triangular	 2 ovate	 4 elliptic	 7 obovate	 10 obtriangular
			 3 circular		

[Annex III follows]

TWP/1/1 Rev.

ANNEX III - PROGRAM FOR THE DEVELOPMENT OF TGP DOCUMENTS

	Title of document	Current approved documents	2017					2018					2019					
			TC-EDC	TC/53	TWPs	CAJ/74	C/51	TC-EDC	TWPs	TC/54	CAJ/75	C/52	TC-EDC	TC/55	TWPs	CAJ/76	C/53	
TGP/0	List of TGP Documents and Latest Issue Dates	TGP/0/9 ADOPTED																TGP/0/10 Adopt
TGP/1	General Introduction with Explanations	-																
TGP/2	List of Test Guidelines Adopted by UPOV	TGP/2/2 ADOPTED																
TGP/3	Varieties of Common Knowledge	C(Extr.)/19/2 Rev.																
TGP/4	Constitution and Maintenance of Variety Collections	TGP/4/1 ADOPTED																
TGP/5	Experience and Cooperation in DUS Testing	ADOPTED																
	Confidentiality of molecular information (Drafter: Office of the Union)	TGP/5 SECTION 1/2							x	x	x	x						TGP/5 Section1/3 Adopt
TGP/6	Arrangements for DUS Testing	ADOPTED																
TGP/7	Development of Test Guidelines	TGP/7/4 ADOPTED																
	Drafter's Kit for Test Guidelines (Drafter: Office of the Union)								x			x						TGP/7/6 Adopt
	Duration of test in the fruit sector (Drafter: Office of the Union)								x	x	x	x						TGP/7/6 Adopt
	Characteristics which only apply to certain varieties (Drafter: Office of the Union)								x	x	x	x						TGP/7/6 Adopt
TGP/8	Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability	TGP/8/2 ADOPTED																
	Method of Calculation of COYU (Drafter: Adrian Roberts (GB))								x	x	x	x						TGP/8/4 Adopt
	Examining DUS in Bulk Samples (Drafter: Office of the Union)								x			x						TGP/8/4 Adopt
	Data Processing for the Assessment of Distinctness and for Producing Variety Descriptions (Drafter: Office of the Union)								x	x	x	x						TGP/8/4 Adopt
	Uniformity assessment on the basis of off-types: Method for more than one single test (year)								x	x	x	x						TGP/8/4 Adopt
TGP/9	Examining Distinctness	TGP/9/2 ADOPTED																
TGP/10	Examining Uniformity	TGP/10/1 ADOPTED																
	Assessing Uniformity by Off-types on the Basis of More than One Growing Cycle or on the Basis of Sub-Samples (Drafter: Office of the Union)								x	x	x	x						TGP/10/2 Adopt
TGP/11	Examining Stability	TGP/11/1 ADOPTED																
TGP/12	Guidance on Certain Physiological Characteristics	TGP/12/2 ADOPTED																
TGP/13	Guidance for New Types and Species	TGP/13/1 ADOPTED																
TGP/14	Glossary of Terms Used in UPOV Documents	TGP/14/3 ADOPTED																
	Illustrations for shape and ratio characteristics (Drafter: Office of the Union)								x	x	x	x						TGP/14/4 Adopt
	UPOV color groups (Drafter: Andrea Menne (DE))								x	x	x	x						TGP/14/4 Adopt
TGP/15	Guidance on the Use of Biochemical and Molecular Markers in the Examination of Distinctness, Uniformity and Stability (DUS)	TGP/15/1 ADOPTED																

[End of Annex III and of document]