

Technical Committee**TC/54/5 Rev.****Fifty-Fourth Session
Geneva, October 29 and 30, 2018****Original:** English
Date: September 28, 2018

TGP DOCUMENTS*Document prepared by the Office of the Union**Disclaimer: this document does not represent UPOV policies or guidance***EXECUTIVE SUMMARY**

1. The purpose of this document is to provide an overview of revisions of TGP documents.
2. The TC is invited to:
 - (a) note that the proposed revisions to document TGP/7 on “Drafter’s kit for Test Guidelines” and “Presentation of different types of example varieties”, agreed by the TC at its fifty-third session, will be proposed for adoption by the Council at its fifty-second ordinary session, to be held in Geneva on November 2, 2018, subject to approval by the CAJ, at its seventy-fifth session, to be held in Geneva on October 31, 2018, on the basis of document TGP/7/6 draft 1;
 - (b) consider the proposed guidance on confidentiality of molecular information as set out in document TGP/5, Section 1/3 draft 1: “Model administrative agreement for international cooperation in the testing of varieties”;
 - (c) note that, subject to the agreement by the CAJ, at its session to be held on October 31, 2018, the proposed guidance on confidentiality of molecular information will be put forward for adoption by the Council, at its session in 2018;
 - (d) note the revisions already agreed by the TC for documents TGP/8 and TGP/14, as set out in Annexes II and III to this document;
 - (e) note the matters for possible future revision of TGP documents that will be considered under separate documents;
 - (f) consider whether to invite the TWV to revise the Test Guidelines for Broccoli to accept the use of any other method to assess male sterility in a DNA-marker test, including alternative markers for the DNA-marker test, where validated by the testing authorities in UPOV members;
 - (g) consider a situation where existing Test Guidelines characteristics do not meet the requirements set out in document TGP/7;
 - (h) consider whether to invite the TWPs to develop further guidance on providing explanations for disease resistance characteristics in Test Guidelines using the Standard Resistance Protocol provided in document TGP/12 “Guidance on certain physiological characteristics”, including the elements that would not need to be completed;
 - (i) consider whether to request the Office of the Union and relevant experts to provide training at relevant TWPs on explanations for disease resistance characteristics in Test Guidelines; and
 - (j) consider the program for the development of TGP documents, as set out in Annex IV to this document.

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4. The following abbreviations are used in this document:

BMT	Working Group on Biochemical and Molecular Techniques and DNA-Profiling in Particular
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

BACKGROUND

5. The TC, at its fifty-third session, and the CAJ, at its seventy-fourth session, approved the program for the development of TGP documents, as set out in the Annex to documents TC/53/5 and CAJ/74/7, respectively (see document TC/53/31 "Report", paragraph 145, and document CAJ/74/10 "Report", paragraph 39).

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

7. The Council, at its thirty-fourth extraordinary session, held in Geneva on April 6, 2017, decided to organize a single set of sessions from 2018, in the period of October/November (see document C(Extr.)/34/6 "Report on the decisions", paragraphs 12 to 14). From 2018, the meetings of the TC will take place on October/November instead of March/April. The TC-EDC will meet twice a year; once in the period of March/April and once in conjunction with the TC sessions later in the year.

8. Based on the recommendation of the Consultative Committee, the Council decided to adopt the proposals of the TC, at its fifty-third session, to use contingency measures in the transitional period until the fifty-fourth session of the TC, to be held in October 2018; for TGP documents, the TC-EDC would consolidate comments made by the TWPs at their sessions in 2017 and, in the absence of consensus between the TWPs, to formulate proposals for further consideration by the TWPs at their sessions in 2018 (see document C(Extr.)/34/6 "Report on the decisions", paragraphs 12 to 14).

MATTERS FOR ADOPTION BY THE COUNCIL IN 2018

Matters previously agreed by the Technical Committee

TGP/7: Development of Test Guidelines

9. The following revisions of document TGP/7 "Development of Test Guidelines" were agreed by the Technical Committee, at its fifty-third session, held in Geneva from April 3 to 5, 2017, to be proposed for adoption by the Council at its fifty-second ordinary session, to be held in Geneva on November 2, 2018, subject to approval by the CAJ, at its seventy-fifth session, to be held in Geneva on October 31, 2018:

(i) Drafter's Kit for Test Guidelines

10. The TC, at its fifty-third session, 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) (see document TC/53/31 "Report", paragraphs 107 to 109).

11. The revisions to the Drafter's Kit for Test Guidelines agreed by the TC at its fifty-third session are contained in document TGP/7/6 draft 1.

(ii) Presentation of different types of example varieties

12. The TC, at its fifty-third session, agreed that the guidance in document TGP/7 “Development of Test Guidelines”, GN 28, Section 3.2: “Different types of variety” should be revised to indicate the type before 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”, paragraph 131).

13. The proposed revision to Guidance Note (GN) 28, Section 3.2: “Different types of variety” agreed by the TC, at its fifty-third session, is set out in Annex I to this document and is contained in document TGP/7/6 draft 1.

14. The TC is invited to note that the proposed revisions to document TGP/7 on “Drafter’s kit for Test Guidelines” and “Presentation of different types of example varieties”, agreed by the TC at its fifty-third session, will be proposed for adoption by the Council at its fifty-second ordinary session, to be held in Geneva on November 2, 2018, subject to approval by the CAJ, at its seventy-fifth session, to be held in Geneva on October 31, 2018, on the basis of document TGP/7/6 draft 1.

Matters to be considered by the Technical Committee

TGP/5: Section 1: “Model administrative agreement for international cooperation in the testing of varieties”

15. The TC, at its fifty-third session, held in Geneva from April 3 to 5, 2017, agreed that the guidance on plant material provided in document TGP/5: “Experience and cooperation in DUS testing”, Section 1: “Model administrative agreement for international cooperation in the testing of varieties” would be a suitable basis also for molecular data and requested the Office of the Union to propose guidance on confidentiality of molecular information for inclusion in document TGP/5, Section 1, on that basis (see document TC/53/31 “Report”, paragraph 182).

16. The TWA, TWV, TWO, TWF and TWC considered document TWP/1/9 “Confidentiality of molecular information” and agreed to propose that Articles 4 and 6 of document TGP/5, Section 1 be revised to read as follows (see documents TWA/46/10 “Report”, paragraphs 18 and 19; TWV/51/16, “Report” paragraphs 22 to 25; TWO/50/14 “Report”, paragraphs 19 to 21; TWF/48/13 “Report”, paragraphs 22 to 25; and TWC/35/21 “Report”, paragraphs 32 to 35) (proposed insertion of text indicated by highlighting and underlining):

“Article 4

“(1) The Authorities shall take all necessary steps to safeguard the rights of the applicant.

“(2) Except with the specific authorization of the Receiving Authority and the applicant, the Executing Authority shall refrain from passing on to a third person any material, including DNA, or molecular information, of the varieties for which testing has been requested.”

[...]

“Article 6

“Practical details arising out of this Agreement –regarding in particular the provisions relating to the considerations, application forms, technical questionnaires and requirements as to propagating material, testing methods, exchange of reference samples, exchange of molecular information, maintenance of reference collections and the presentation of the results– shall be specified in this Agreement or settled between the Authorities by correspondence.”

17. The TWV recalled the decision by the TC at its fifty-third session (see document TC/53/31 “Report”, paragraphs 180 and 182), and invited the TC to clarify its view in relation to inviting members to make molecular information available for inclusion in publicly available databases (e.g. GENIE) and, on the other hand, requesting to review existing guidance to increase the confidentiality of molecular information.

18. The TWC agreed with the TWF that certain information provided by the applicant might not be available due to trade secret agreement signed between the authority in charge of DUS and the applicant. In

contrast, national legislation regarding official information may require passing other information to a third person (see documents TWF/48/13 "Report", paragraph 25 and TWC/35/21 "Report", paragraph 35).

19. The proposed revisions of document TGP/5, Section 1: "Model administrative agreement for international cooperation in the testing of varieties" are presented in document TGP/5: Section 1/3 draft 1.

20. *The TC is invited to:*

(a) *consider the proposed guidance on confidentiality of molecular information as set out in document TGP/5, Section 1/3 draft 1: "Model administrative agreement for international cooperation in the testing of varieties"; and*

(b) *note that, subject to the agreement by the CAJ, at its session to be held on October 31, 2018, the proposed guidance on confidentiality of molecular information will be put forward for adoption by the Council, at its session in 2018.*

FUTURE REVISIONS OF TGP DOCUMENTS

Matters previously agreed by the Technical Committee

21. The following revisions of TGP documents were agreed by the Technical Committee, at its fifty-third session, held in Geneva from April 3 to 5, 2017, to be proposed for adoption by the Council:

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

(iii) Examining DUS in Bulk Samples

22. The TC, at its fifty-third session, agreed a list of criteria as the basis for the development of guidance for inclusion in a future revision of document TGP/8, as set out in Annex II to this document (see document TC/53/31 "Report", paragraphs 113 to 116).

TGP/14: Glossary of Terms Used in UPOV Documents

(iv) Illustrations for shape and ratio characteristics

23. The TC, at its fifty-third session, 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 Example 5, 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 III to this document (see document TC/53/31 "Report", paragraph 141).

24. *The TC is invited to note the revisions already agreed by the TC for documents TGP/8 and TGP/14, as set out in Annexes II and III to this document.*

Matters to be considered by the Technical Committee

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

TGP/7: Development of Test Guidelines

(i) Duration of DUS tests See document TC/54/14

(ii) Characteristics which only apply to certain varieties
See document TC/54/15

(iii) Procedure for the adoption of Test Guidelines by correspondence
See document TC/54/16

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 TC/54/17

(v) Data Processing for the Assessment of Distinctness and for Producing Variety Descriptions
See document TC/54/18

(vi) Method for more than one single test (year)
See document TC/54/19

TGP/10: Examining uniformity

(vii) Assessing Uniformity by Off-Types on the Basis of More than One Growing Cycle or on the Basis of Sub-Samples
See document TC/54/20

TGP/14: Glossary of Terms Used in UPOV Documents

(viii) Illustrations for shape and ratio characteristics
See document TC/54/21

(ix) UPOV color groups
See document TC/54/22

TGP/15: Guidance on the Use of Biochemical and Molecular Markers in the Examination of Distinctness, Uniformity and Stability (DUS)

(x) Revision of document TGP/15
See documents TC/54/23 and TGP/15/2 Draft 1

26. *The TC is invited to note the matters for possible future revision of TGP documents that will be considered under separate documents.*

POSSIBLE FUTURE REVISIONS OF TGP DOCUMENTS

TGP/7: Development of Test Guidelines

Proprietary method of assessment for male sterility

27. The TC-EDC considered the draft Test Guidelines for Broccoli and the methodology for the assessment of male sterility in a DNA-marker test. The TC-EDC noted that the DNA-marker test could be used as an alternative test to the field trial (see document TC-EDC/Mar18/11 "Report", paragraphs 49 to 51).

28. The TC-EDC noted the following disclaimer:

"The description of the method to test male sterility for *Brassica* (CMS marker) is covered by a trade secret. The owner of the trade secret, Syngenta Seeds B.V., has given its consent for the use of the CMS marker solely for the purposes of examination of Distinctness, Uniformity and Stability (DUS) and for the development of variety descriptions by UPOV and authorities of UPOV members. Syngenta Seeds B.V. declares that neither UPOV, nor authorities of UPOV members that use the CMS marker for the above purposes will be held accountable for possible (mis)use of the CMS marker by third parties. Please contact Naktuinbouw, Netherlands, to obtain the method and information on the CMS marker for the purposes mentioned above."

29. The TC-EDC recommended that the TC consider the possibility to accept the use of any other method, including alternative markers for the DNA marker test, where validated by the testing authorities in UPOV members.

30. *The TC is invited to consider whether to invite the TWV to revise the Test Guidelines for Broccoli to accept the use of any other method to assess male sterility in a DNA-marker test, including alternative markers for the DNA-marker test, where validated by the testing authorities in UPOV members.*

Suitability of characteristics in previous versions of Test Guidelines

31. The TC-EDC considered the draft Test Guidelines for Cotton and the use of characteristics, such as fiber length, fiber strength, fiber elongation, fiber fineness and fiber length uniformity. The TC-EDC noted that those characteristics had been introduced in the first Test Guidelines for Cotton adopted in 1985 or in the revised version in 2001. The TC-EDC recommended requesting the leading expert of the Test Guidelines for Cotton to provide further information on how characteristics 30 to 34 are assessed, in Chapter 8 (see document TC-EDC/Mar18/11 "Report", paragraphs 52 and 53)

32. The TC-EDC agreed to recommend to the TC to consider a situation where existing Test Guidelines characteristics do not meet the requirements set out in document TGP/7.

33. *The TC is invited to consider a situation where existing Test Guidelines characteristics do not meet the requirements set out in document TGP/7.*

TGP/12: Guidance on Certain Physiological Characteristics

Explanations on disease resistance characteristics

34. The TC-EDC agreed to invite the TC to consider whether to provide further guidance on elements that would not need to be completed in explanations for disease resistance characteristics in Test Guidelines using the Standard Resistance Protocol provided in document TGP/12 "Guidance on certain physiological characteristics". The TC-EDC recommended that the TC considered providing training at relevant TWPs on providing explanations for disease resistance characteristics in Test Guidelines (see document TC-EDC/Mar18/11 "Report", paragraph 48).

35. *The TC is invited to consider whether:*

(a) to invite the TWPs to develop further guidance on providing explanations for disease resistance characteristics in Test Guidelines using the Standard Resistance Protocol provided in document TGP/12 "Guidance on certain physiological characteristics", including the elements that would not need to be completed; and

(b) to request the Office of the Union and relevant experts to provide training at relevant TWPs on explanations for disease resistance characteristics in Test Guidelines.

PROGRAM FOR THE DEVELOPMENT OF TGP DOCUMENTS

36. Annex IV to this document presents the program for the development of TGP documents as amended on the basis of the comments by the TWPs at their sessions in 2017 and the recommendations by the TC-EDC at its meeting held on March 26 and 27, 2018.

37. *The TC is invited to consider the program for the development of TGP documents, as set out in Annex IV to this document.*

[Annexes follow]

ANNEX I

REVISIONS 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 are 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~~

~~TC 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
<u>Sending 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 including 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 Beispielssorten 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.”

38. 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.~~”

39. 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"

"GN 28 (TG Template: Chapter 6.4) – Example varieties

"3.2 Different types of variety

"3.2.2 Where different sets of example varieties are provided for different types of varieties covered by the same Test Guidelines, they are placed in the Table of Characteristics in the same column as normal. The sets of example varieties (e.g. winter and spring) are ~~separated by a semicolon, and/or~~ indicated by a key which is provided for each set and an explanation for the option chosen should be included in the legend of Chapter 6 of the Test Guidelines.

"Example: For certain characteristics, different example varieties are indicated for winter type and spring type varieties. ~~These types are separated by a semicolon, with the winter types placed before the semicolon and~~ The winter type varieties are prefixed by '(w)' and the spring types ~~placed after the semicolon and~~ prefixed by '(s)'."

13. (*)	QN	MG B	(+)	75-92		
	Plant: length	Plante : longueur	Pflanze: Länge	Planta: longitud		
	short	courte	kurz	corta	(w) Variety A, (w) Variety B, (s) Alpha	3
	medium	moyenne	mittel	media	(w) Variety C, (s) Beta	5
	long	longue	lang	larga	(w) Variety D	7

40. 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]

ANNEX II

REVISION OF DOCUMENT TGP/8 PREVIOUSLY AGREED BY THE TC

Examining DUS in Bulk Samples

The following list of criteria was agreed by the TC 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."











[Annex III follows]

ANNEX III

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;"> ← broad (few)← </div> </div>	<div style="display: flex; align-items: center;"> → narrow (high) </div>		 6 linear				
	<div style="display: flex; align-items: center;"> → width (ratio-length/width) </div>			 5 oblong	 8 oblanceolate	 9 spatulate	
	<div style="display: flex; align-items: center;"> ← width (ratio-length/width) </div>		 1 triangular	 2 ovate	 4 elliptic	 7 obovate	 10 obtriangular
	<div style="display: flex; align-items: center;"> ← broad (few)← </div>			 3 circular			

[Annex IV follows]

TC/54/5 Rev.

ANNEX IV

PROGRAM FOR THE DEVELOPMENT OF TGP DOCUMENTS AMENDED ON THE BASIS OF COMMENTS BY THE TWPS, AT THEIR SESSIONS IN 2017

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	TWPs	TC/55	CAJ/76	C/53
TGP/0	List of TGP Documents and Latest Issue Dates															TGP/0/11 Adopt
TGP/1	General Introduction with Explanations															
TGP/2	List of Test Guidelines Adopted by UPOV															
TGP/3	Varieties of Common Knowledge															
TGP/4	Constitution and Maintenance of Variety Collections															
TGP/5	Experience and Cooperation in DUS Testing															
	Confidentiality of molecular information (Drafter: Office of the Union)															
		TGP/5 SECTION 1/2														
TGP/6	Arrangements for DUS Testing															
TGP/7	Development of Test Guidelines															
	Drafter's Kit for Test Guidelines (Drafter: Office of the Union)															
	Duration of test in the fruit sector (Drafter: Office of the Union)															
	Characteristics which only apply to certain varieties (Drafter: Office of the Union)															
	Procedure for the adoption of Test Guidelines by correspondence (Drafter: Office of the Union)															
TGP/8	Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability															
	Method of Calculation of COYU (Drafter: Adrian Roberts (GB))															
	Examining DUS in Bulk Samples (Drafter: Office of the Union)															
	Data Processing for the Assessment of Distinctness and for Producing Variety Descriptions (Drafter: Office of the Union)															
	Uniformity assessment on the basis of off-types: Method for more than one single test (year) (Drafter: Adrian Roberts (GB))															
TGP/9	Examining Distinctness															
TGP/10	Examining Uniformity															
	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)															
TGP/11	Examining Stability															
TGP/12	Guidance on Certain Physiological Characteristics															
TGP/13	Guidance for New Types and Species															
TGP/14	Glossary of Terms Used in UPOV Documents															
	Illustrations for shape and ratio characteristics (Drafter: Office of the Union)															
	UPOV color groups (Drafter: Andrea Menne (DE))															
TGP/15	Guidance on the Use of Biochemical and Molecular Markers in the Examination of Distinctness, Uniformity and Stability (DUS)															
	Combining Phenotypic and Molecular Distances in the Management of Variety Collections (Drafter: René Mathis (FR))															
	Genetic selection of similar varieties for the first growing cycle (Drafter: Amanda van Dijk-Veldhuizen (NL))															

[End of Annex IV and of document]