



TC/49/31
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INTERNATIONALER VERBAND ZUM SCHUTZ VON PFLANZENZÜCHTUNGEN
 Genf

TECHNISCHER AUSSCHUSS

**Neunundvierzigste Tagung
 Genf, 18. bis 20. März 2013**

**ÜBERARBEITUNG VON DOKUMENT TGP/8: TEIL II: VERFAHREN FÜR DIE DUS-PRÜFUNG,
 NEUER ABSCHNITT: ANLEITUNG ZUR ERSTELLUNG VON SORTENBESCHREIBUNGEN**

Vom Verbandsbüro erstelltes Dokument

1. Zweck dieses Dokuments ist es, einen Vorschlag für die Anleitung für einen neuen Abschnitt: „Anleitung zur Erstellung von Sortenbeschreibungen“ vorzulegen, der in Dokument TGP/8: Teil II: „Verfahren für die DUS-Prüfung“ aufgenommen werden soll.

2. In diesem Dokument werden folgende Abkürzungen verwendet:

CAJ: Verwaltung- und Rechtsausschuß
 TC: Technischer Ausschuß
 TC-EDC: Erweiterter Redaktionsausschuß
 TWA: Technische Arbeitsgruppe für landwirtschaftliche Arten
 TWC: Technische Arbeitsgruppe für Automatisierung und Computerprogramme
 TWF: Technische Arbeitsgruppe für Obstarten
 TWO: Technische Arbeitsgruppe für Zierpflanzen und forstliche Baumarten
 TWV: Technische Arbeitsgruppe für Gemüsearten
 TWP: Technische Arbeitsgruppen

3. Der Aufbau des Dokuments ist nachstehend zusammengefaßt:

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ANLAGE I: VORGESCHLAGENER TEXT FÜR DEN NEUEN ABSCHNITT VON DOKUMENT TGP/8/1:
 TEIL II: ANLEITUNG ZUR ERSTELLUNG VON SORTENBESCHREIBUNGEN
 (NUR AUF ENGLISCH)

ANLAGE II: BEMERKUNGEN DER TWP AUF DEREN TAGUNGEN IM JAHR 2012 BEZÜGLICH DER
 ÜBERARBEITUNG VON DOKUMENT TGP/8/1: TEIL II: NEUER ABSCHNITT: ANLEITUNG
 ZUR ERSTELLUNG VON SORTENBESCHREIBUNGEN (NUR AUF ENGLISCH)

HINTERGRUND

4. Der Technische Ausschuß (TC) erinnerte auf seiner achtundvierzigsten Tagung in Genf vom 26. bis zum 28. März 2012 daran, daß er auf seiner sechsendvierzigsten Tagung darum ersucht hatte, die Anleitung zur Erstellung von Sortenbeschreibungen mit Informationen aus:

- (i) mehr als einer Wachstumsperiode an einem Standort, und
- (ii) mehr als einem Standort

zu prüfen.

5. Der TC vereinbarte, daß die Sachverständigen aus den Niederlanden ersucht werden sollten, einen Entwurf für die Anleitung zur Erstellung von Sortenbeschreibungen mit Informationen aus mehr als einer Wachstumsperiode an einem Standort, und mehr als einem Standort zu verfassen (vergleiche Dokument TC/48/22 „Bericht über Entschließungen“, Absatz 62).

BEMERKUNGEN DER TECHNISCHEN ARBEITSGRUPPEN (TWP) IM JAHR 2012

6. Auf ihren Tagungen im Jahr 2012 prüften die TWA, TWV, TWC, TWF und TWO die Dokumente TWA/41/18, TWV/46/18, TWC/30/18, TWF/43/18 und TWO/45/18, wie in Anlage I (nur auf Englisch^{*}) dargelegt. Anlage II (nur auf Englisch^{*}) dieses Dokuments enthält die Bemerkungen der TWP zu diesen Dokumenten im Jahr 2012.

7. In Anlehnung an die Bemerkungen der TWP kam der Verfasser zu dem Schluß, daß es nicht sinnvoll wäre, eine weitere Ausarbeitung der Anleitung anzustreben, sondern die Fragen in dem neuen Abschnitt zu behandeln, der in TGP/8 als „Datenverarbeitung für die Prüfung der Unterscheidbarkeit und die Erstellung von Sortenbeschreibungen“ aufgenommen werden soll, wie in Dokument TC/49/29 dargelegt.

8. Der TC wird ersucht, zu prüfen, ob die Information in Anlage I dieses Dokuments mit Dokument TC/49/29 kombiniert und die Ausarbeitung eines neuen Abschnitts zur „Anleitung zur Erstellung von Sortenbeschreibungen“ eingestellt werden soll.

[Anlagen folgen]

^{*} Der TC-EDC vereinbarte auf seiner Sitzung am 9. und 10. Januar 2013, daß es nicht zweckmäßig sei, den Text für die neunundvierzigste Tagung des TC zu übersetzen.

PROPOSED TEXT FOR NEW SECTION OF DOCUMENT TGP/8/1: PART II: NEW SECTION: GUIDANCE FOR DEVELOPMENT OF VARIETY DESCRIPTIONS

Document prepared by experts from the Netherlands

1. Variety descriptions are produced as a result of the DUS test(s) carried out in order to establish if a variety is Distinct, Uniform and Stable according to the UPOV definitions. Variety descriptions carry valuable information on the identity of the variety. Variety descriptions are the most frequently used means to exchange information on the identity of the variety.
2. The quality or value of the variety description depends on a number of factors such as the location of the trials, the quality of the trial(s), climatic conditions during the trial(s) and the expertise of the DUS examiner. The interpretation of a variety description by another party also depends on the experience with the crop and the expertise of the receiving person (e.g. another DUS- examiner, an official or an applicant or breeders).
3. The General Introduction as well as TGP/7 gives clear definitions on characteristics, states of expression and the way observations are to be translated into states of expression in the variety description.
4. In cases where the variety is observed in more than one trial, the results of the trials should lead to a single variety description. Such cases arise when the number of independent growing cycles is more than one and if a trial that normally has one growing cycle has to be repeated in a second growing cycle. Normally the trials should be carried out at one place, but also cases where trials are carried out on different places have to be taken into account. In this document guidance is given how to decide on the final note of a characteristic, if observations from more than one DUS trial are available.
5. When diverging notes are made in different trials the question arises how to come to the final note in the variety description. The UPOV system itself gives some valuable indications how to treat such diverging notes, but an important element in the decision is the expertise of the DUS examiner involved. Especially in measured characteristics the COYD approach can be of help to align results.
6. Measured characteristics using COYD.
In COYD the variety means in different trial results are corrected for the year or location effect. It goes on the assumption that the measurements were correct so the DUS examiner who carried out such measurements was experienced and made no obvious mistake. Experience shows that two trials in one place (in two seasons) show less variation than two trials in two places in the same season. The value (mean) obtained by COYD can be transformed to a note for the variety description as described in section 6 of TGP/8.
7. Measured characteristics without using COYD
In some cases the use of COYD is not possible e.g. due to the limited number of samples in the trial, lack of sufficient repetitions etc. This applies mostly in measured characteristics in fruit, ornamentals and vegetables. In these cases after each trial the translation of a calculated mean is established using the mean value of all observations and taking into account the mean value of the observations on well known varieties that are present in both (or more) trials (also known as standard varieties) or varieties with known notes.
If after two (or more) trials where the note has been established, these notes are not the same; a decision has to be made on the final note to be included in the variety description. The following three options can be envisaged:
 - 7.1. To recalculate a mean value for measured characteristics without using COYD
It is not advisable to recalculate a mean value without correction for the year and or location effect. Such approach may lead to a note in the variety description that is not correct as certain year/location effects play a role.
 - 7.2. To choose one of the established values for measured characteristics without using COYD
If the values from the different trials show a clear effect of one of the trials due to explainable circumstances, it may be considered to base the description on the remaining trial that, in the experience of the DUS

examiner showed normal results. The values of measurements of known (standard) varieties that are included in the trials may be used to reach such a decision.

7.3 To re-test the application an extra year for measured characteristics without using COYD
If the values from the different trials show a clear effect of one of the trials due to not explainable circumstances and the values of measurements of known (standard) varieties that are included in the trials do not give a clear explanation on the different results between the trials, in exceptional cases it can be decided to carry out an extra trial. This can happen when a mistake was made or there is a large genotype x conditions effect for that variety and that characteristic or when it was concluded that a mistake must have been made at observing/recording.

8. Visually observed characteristics

With visually observed characteristics, an important difference has to be made between visual assessment by a single observation of a group of plants or parts of plants (VG) or visual assessment by observation of individual plants or parts of plants (VS). In case of VS characteristics the same approach as described in paragraphs 7 is possible as a number of observations per plot is available (see TWC/28/29). The use of VS characteristics is however rare. Most visually observed characteristics are VG characteristics. In case of VG characteristics it is not possible to calculate a measured mean between two or more trials. Depending on the type of visually observed characteristics the following applies.

8.1 Visually observed qualitative characteristics (VG/QL)

In general VG/QL characteristics are discrete, easy to describe, discontinuous and generally drawings or photographs are available to help the DUS examiner to correctly observe such characteristics. It is rare that observation of the same VG/QL characteristic in different trials leads to different notes in the description. It cannot be excluded however that environment also influences such characteristics. In such a case the DUS examiner has to decide which note to take; or which trial was likely to give the most 'normal' results. It is therefore recommended to compare the results of a second (or additional) trial immediately with the result(s) obtained in earlier trials. If divergence is found, one can re-visit the trial to check that no mistakes were made. When the note is confirmed, using e.g. the notes from both trials comparing the variety with other varieties, one could still reach a conclusion which note to use. When such a choice cannot be made, in exceptional cases an extra trial may be necessary. A thorough calibration procedure of the DUS examiner diminishes this kind of deviation caused by the examiner effect. If for a given reason the result from one trial is preferred, also for other characteristics the results from that trial should be considered a 'leading'.

8.2 Visually observed quantitative characteristics (VG/QN)

VG/QN characteristics are more easily influenced by environment. Also it is not easy to calibrate a person's observations between trials. In case two DUS examiners make an observation in different trials (in different places) it may be expected that the notes deviate. In general a choice has to be made on the most stable results. For such decision it is important to notice a deviation during the trial so that it is possible to re-check, discuss with other experts and decide which result to follow. In general it is not advised to just take the mean of both results (e.g. if in the first trial leaf: green color is scored as 5 (medium) and in the second trial as 7 (dark) it is not advised to decide on the final note to be 6 (medium to dark)). The comparison with standard or comparing varieties in both trials could help (if in both trials the application is recorded as darker than comparing variety 'B' and the note for leaf: green color of variety 'B' is 5 (medium) the final note for the application in the example case is more likely to be 7 than 5 [however 6 is also possible]. Also in this case: if the difference between the notes is felt to be too large and cannot be explained sufficiently, the note could in some cases (for non asterisk characteristics) be left blank or an additional trial could be carried out.

8.3 Visually observed pseudo-qualitative PQ characteristics (VG/PQ)

As PQ characteristics often show a combination of QN and QL aspects, it is up to the DUS examiner to decide how to approach a possible divergence between notes according to one of the above paragraphs.

[Annex II follows]

COMMENTS MADE BY THE TWPS, AT THEIR SESSIONS IN 2012, CONCERNING THE REVISION OF
DOCUMENT TGP/8/1: PART II: NEW SECTION: GUIDANCE FOR DEVELOPMENT OF VARIETY
DESCRIPTIONS

General	<p>The TWA agreed that the document should be redrafted, recommending that the reference to COYD method was not appropriate. It recommended that the draft should include guidance on how to deal with variety x growing cycle interactions, mainly for quantitative characteristics in more than one growing cycle in one location and more than one location. These two situations should not be considered separately and the drafter should refer to TGP/8 and New Section 2 "Data to be recorded". A remark was made suggesting the use of example varieties as a tool to evaluate the interaction (see document TWA/41/34 "Report", paragraph 26).</p> <p>The TWC considered document TWC/30/18 and noted that the situation described in paragraph 5 did not cover all methods used by members of the Union and should be revised. The TWC agreed to remove the references to COYD, as suggested by the TWA (see document TWC/30/41 "Report", paragraphs 49 to 51).</p>	TWA, TWC
	<p>The TWV thanked the drafter for the work on the document but agreed that this guidance is already provided in the TGP documents and proposed not to further develop the guidance on variety descriptions. The TWV concluded that the process of preparing a variety description is largely based on the experience of the DUS expert (see document TWV/46/41 "Report", paragraph 25).</p>	TWV
	<p>The TWC also agreed that the paragraph 7.2 should recommend that descriptions of varieties (tested in more than one growing cycle) should be made from results obtained from the same location in order to reduce variation. The TWC agreed that this document should be further developed taking into account the comments provided by other TWPs (see document TWC/30/41 "Report", paragraphs 52 and 53).</p>	TWC
	<p>The TWF considered document TWF/43/18 and noted that the last sentence of paragraph 8.1 should be redrafted:</p> <p>"[If for a given reason the result from one trial is preferred, also for other characteristics the results from that trial should be considered a 'leading']"</p> <p>The TWF agreed that the guidance should be further developed taking into account the comments provided by other TWPs. (see document TWF/43/38 "Report", paragraphs 35 and 36)</p>	TWF

[Ende der Anlage II und des Dokuments]