

**Technical Committee**
**TC/59/28**
**Fifty-Ninth Session  
Geneva, October 23 and 24, 2023**
**Original:** English  
**Date:** October 24, 2023

**REPORT**
*adopted by the Technical Committee*
*Disclaimer: this document does not represent UPOV policies or guidance*

1. The Technical Committee (TC) held its fifty-ninth session in Geneva on October 23 and 24, 2023. The list of participants is reproduced in Annex I to this report.
2. The session was opened by Ms. Beate Rücker, Chairperson of the TC, who welcomed the participants.
3. The Secretary-General introduced Ms. Yolanda Huerta, who was appointed to the post of Vice Secretary-General, on October 23, 2023, Mr. Martin Ekvad, appointed Director of Legal Affairs and Mr. Leontino Taveira, appointed Director of Global Development and Technical Affairs, on October 15, 2023.

Adoption of the agenda

4. The TC adopted the agenda as presented in document TC/59/1 Rev.

Report by the Vice Secretary-General on developments in UPOV

5. The TC received a presentation from the Vice Secretary-General and noted that a copy of the presentation would be made available after the UPOV sessions on the UPOV website.
6. The TC noted that Nigeria had been granted observer status at the Technical Working Parties (TWPs) and that Rwanda had been granted observer status at the Council, Administrative and Legal Committee, Technical Committee and the TWPs.

Progress report on the work of the Technical Working Parties

7. The TC noted that, since its fifty-eighth session, the Technical Working Party for Agricultural Crops (TWA), Technical Working Party for Fruit Crops (TWF), Technical Working Party for Ornamental Plants and Forest Trees (TWO) and Technical Working Party for Vegetables (TWV) had each held one session. The TC noted that the TWV and TWF had held hybrid meetings and that the TWA and TWO had met virtually.
8. The TC received oral reports from the chairpersons on the work of the TWA, TWF, TWO and TWV. The TC noted that the reports from the chairpersons were provided in the Annexes to document TC/59/8.
9. Following the report from the TWF chairperson, the TC agreed to invite the TWF to consider at its fifty-fifth session the use of methods of observations for single measurements of a group of plants or parts of plants (MG) and for measurements of a number of individual plants or parts of plants (MS) for the assessment of characteristics in Test Guidelines for fruit crops.
10. The TC approved the programs of work for the TWPs, at their sessions in 2024, as set out in the Annexes to document TC/59/8, with the addition of the agenda item on methods of observation of characteristics for the TWF.
11. The TC noted that the TWM did not hold a session in 2023.

Matters arising from the Technical Working Parties

12. The TC considered document TC/59/3.

*Matters for information and for a possible decision to be taken by the TC*

Information on mutant varieties of apple useful for DUS examination

13. The TC considered the proposal to support the exchange of information on mutant varieties of apple, as set out in document TC/59/3, paragraphs 6 to 10.

14. The TC agreed that it would not be appropriate to make available confidential information on a restricted area of the UPOV website.

15. The TC noted that the Office of the Union would not be in position to assess whether or not information provided would include confidential or sensitive data and that UPOV members providing data were responsible in case of misuse of the information.

16. The TC agreed that authorities should continue to cooperate in variety examination of apple mutants, including exchange of information on bilateral basis. The TC agreed that the TWF should continue discussions to support DUS examination of mutant varieties of apple.

*Matters for information*

17. The TC noted developments in the TWP's concerning ongoing discussions on the following matters reported in document TC/59/3:

- (i) Assessing distinctness in disease resistance characteristics;
- (ii) New technologies in DUS examination;
- (iii) Image analysis of vegetable crops;
- (iv) DUSCEL statistical analysis software;
- (v) Experiences with new types and species; and
- (vi) Ornamental varieties of agricultural, fruit or vegetable crops.

Development of guidance and documents proposed for adoption by the Council

*Matters for adoption by the Council in 2023*

18. The TC considered document SESSIONS/2023/2.

Information Documents

*Revision of document UPOV/INF/16 "Exchangeable Software" (document UPOV/INF/16/12 Draft 1)*

19. The TC agreed to propose the revision of document UPOV/INF/16/11 "Exchangeable Software", on the basis of document UPOV/INF/16/12 Draft 1.

*Revision of document UPOV/INF/22 "Software and Equipment Used by Members of the Union" (document UPOV/INF/22/10 Draft 1)*

20. The TC agreed to propose the revision of document UPOV/INF/22/9 "Software and equipment used by members of the Union", on the basis of document UPOV/INF/22/10 Draft 1

Explanatory Notes on Variety Denominations under the UPOV Convention

*New variety denomination classes for Allium*

21. The TC agreed to propose the creation of new variety denomination classes within the genus *Allium*, as presented in document SESSIONS/2023/2, Annex I, and reproduced as follows:

*Classes within a genus*

New: Class 5.1	<i>Allium cepa</i> L. <i>Allium fistulosum</i> L.	ALLIU_CEP ALLIU_FIS	Onion, Echalion, Shallot Welsh Onion
New: Class 5.2	<i>Allium sativum</i> L.	ALLIU_SAT	Garlic
New: Class 5.3	<i>Allium</i> other than classes 5.1 and 5.2	other than classes 5.1 and 5.2	-

22. The TC noted that the Council would be invited to adopt the agreed changes to the Explanatory Notes on Variety Denominations under the UPOV Convention (document UPOV/EXN/DEN), at its fifty-seventh session, subject to agreement from the CAJ, at its eightieth session.

*New variety denomination classes for Prunus*

23. The TC considered the creation of new variety denomination classes within the genus *Prunus*, as presented in document SESSIONS/2023/2, Annex I.

24. The TC considered the proposed explanation that “denominations of interspecific hybrids to be different from denominations in the denomination classes of all the parent species” and agreed that the situation was applicable to all the genera in the list of classes within a genus and not only to *Prunus*.

25. The TC agreed to invite the TWPs, at their sessions in 2024, to consider other situations when a denomination should be compared with denominations in other classes within a genus or the entire genus, such as:

- Denominations for varieties identified at genus level only, where the variety belongs to one of the genera included in the following list of “Classes within a genus” must be different from denominations within that genus.
- Denominations for varieties belonging to one of the “Classes within a genus” must be different from all denominations for varieties identified at genus level only.
- Denominations of interspecific hybrids must be different from denominations of varieties in classes of all the parent species.
- Denominations for varieties belonging to one of the “Classes within a genus” must be different from all denominations for varieties of interspecific hybrids with at least one parent species within that class.

*New variety groups for Beta vulgaris*

26. The TC agreed to propose the creation of variety groups for the UPOV codes for *Beta vulgaris* L. ssp. *vulgaris*, on the basis of the proposed amendments presented in document SESSIONS/2023/2, Annex I, and reproduced as follow:

*Classes within a genus*

	<u>Botanical names</u>	<u>UPOV codes</u>
Class 2.1	<u><i>Beta vulgaris</i> Fodder Beet Group (Other botanical names:</u> <i>Beta vulgaris</i> L. ssp. <i>vulgaris</i> var. <i>alba</i> DC., <i>B. vulgaris</i> L. ssp. <i>vulgaris</i> var. <i>crassa</i> Alef., <i>B. vulgaris</i> L. ssp. <i>vulgaris</i> var. <i>crassa</i> Mansf., <i>B. vulgaris</i> L. ssp. <i>vulgaris</i> var. <i>rapacea</i> K. Koch)  <u><i>Beta vulgaris</i> Sugar Beet Group (Other botanical names:</u> <i>Beta vulgaris</i> L. ssp. <i>vulgaris</i> var. <i>saccharifera</i> Alef., <i>Beta vulgaris</i> L. ssp. <i>vulgaris</i> var. <i>altissima</i> Doell)	BETAA_VUL_GVA;       BETAA_VUL_GVS

	Botanical names	UPOV codes
Class 2.2	<p><u>Beta vulgaris</u> Garden Beet Group (Other botanical names:  <u>Beta vulgaris</u> ssp. <u>vulgaris</u> var. <u>conditiva</u> Alef. (syn.: <u>B. vulgaris</u> L.  var. <u>rubra</u> L.);  <u>B. vulgaris</u> L. ssp. <u>vulgaris</u> var. <u>esculenta</u> L.;  <u>B. vulgaris</u> L. ssp. <u>vulgaris</u> var. <u>hortensis</u></p> <p><u>Beta vulgaris</u> Leaf Beet Group (Other botanical names:  <u>Beta vulgaris</u> L. ssp. <u>vulgaris</u> var. <u>flavescens</u> DC. f. <u>Crispa</u>,  <u>B. vulgaris</u> L. var. <u>cicla</u> L. (L.) <u>Ulrich</u>, <u>B. vulgaris</u> L. ssp. <u>vulgaris</u> var.  <u>vulgaris</u> )</p>	<p>BETAA_VUL_GVC;</p> <p>BETAA_VUL_GVF</p>
Class 2.3	<u>Beta</u> other than classes 2.1 and 2.2.	other than classes 2.1 and 2.2

27. The TC noted that the Council would be invited to adopt the agreed changes to document UPOV/EXN/DEN at its fifty-seventh session, subject to agreement from the CAJ, at its eightieth session.

#### TGP Documents

*TGP/7: Development of Test Guidelines, GN 13, paragraph 3.6, (Revision): Disease resistance characteristics: addition of state of expression and placement of non asterisked disease resistance characteristics in Section 5 of the Technical Questionnaire*

28. The TC agreed to propose amending document TGP/7, GN 13, paragraph 3.6, to clarify that disease resistance characteristics not indicated with an asterisk in the table of characteristics may be presented in Section 5 of Technical Questionnaires (TQ) with the addition of a state of expression “not tested”, when the characteristic was not used as a grouping characteristic, as set out in document SESSIONS/2023/2, Annex II, and reproduced as follows:

“3.6 GN 13(4)(b) explains that “TQ characteristics selected from the Table of Characteristics should, in general, receive an asterisk in the Table of Characteristics”. Certain characteristics, particularly disease resistance characteristics, which are potentially useful as grouping characteristics might not be indicated with an asterisk in the Table of Characteristics. In the case of disease resistance characteristics, for example, there may be obstacles to the use of the characteristic for a number of members of the Union because of technical or quarantine requirements. Those same obstacles might also make it difficult for applicants to provide information on those characteristics if they were included in the Technical Questionnaire, Section 5 “Characteristics of the variety to be indicated”. Therefore, disease resistance characteristics not indicated with an asterisk at the Table of Characteristics and not used as grouping characteristic may be presented in Section 5 of Technical Questionnaires (TQ) with the addition of a state of expression “not tested”. information should be sought in Section 7 “Additional information which may help in the examination of the variety” of the Technical Questionnaire. The guidance on the presentation of the characteristics for Section 5 (see GN 13.3 & 13.4 above) would also apply for the presentation of characteristics in Section 7.”

*TGP/12: Guidance on Certain Physiological Characteristics (Revision): Example disease resistance characteristic*

29. The TC agreed to propose the revision of document TGP/12 “Guidance on certain physiological characteristics”, Section 2.3.2, to replace the example of disease resistance characteristic, as presented in document SESSIONS/2023/2, Annex IV, paragraph 3, to read as follows:

<b>70. VG</b>	<b>Resistance to <i>Podosphaera xanthii</i> (Px) (ex <i>Sphaerotheca fuliginea</i>) (Powdery mildew)</b>		
<b>70.1</b>	<b>Race 1 (Px: 1)</b>		
<b>(+)</b>			
<b>QN</b>	absent or low	Védantais	1
	medium	Escrito	2
	high	Arum	3

30. The TC noted that the Council would be invited to adopt the agreed changes to document TGP/12 at its fifty-seventh session, subject to agreement from the CAJ, at its eightieth session.

*Matters for consideration by the Technical Committee*

(a) Explanatory Notes:

*UPOV/EXN/DEN: Explanatory Notes on Variety Denominations under the UPOV Convention: Amending variety denomination classes for Brassica*

31. The TC considered the proposal to amend the variety denomination classes for *Brassica* to create a separate denomination class for Rapeseed varieties (UPOV code BRASS\_NAP\_NUS), as set out in document SESSIONS/2023/2, Annex III.

32. The TC noted that the proposal would entail the examination of variety denominations for subspecies of *Brassica napus*, *B. nigra* or *B. rapa* under separate denomination classes and that no consensus had been reached at the TWA. The TC agreed that the proposal should not be further discussed.

(b) TGP Documents

*TGP/5: Section 6 “UPOV Report on Technical Examination and UPOV Variety Description” (Revision)*

33. The TC considered the proposals from the TWF and TWO to amend guidance in document TGP/5: Section 6, to propose additional explanations under Section 16 “Similar varieties and differences from these varieties” and 17 “Additional information”, as provided document SESSIONS/2023/2, Annex III, paragraphs 5 to 13.

34. The TC agreed to invite the TWPs, at their sessions in 2024, to consider the proposed revisions to document TGP/5, Section 6, items 16 and 17, and whether to provide further guidance on information about similar varieties considered in the examination and additional information that could be provided with variety descriptions.

*TGP/5: Section 11 “Examples of Policies and Contracts for Material Submitted by the Breeder” (Revision): Access to plant material for the purpose of management of variety collections and DUS examination*

35. The TC considered the proposal from the TWF to develop guidance on elements for inclusion in requests for the submission of plant material of candidate varieties and varieties of common knowledge for DUS examination, as set out in document SESSIONS/2023/2, Annex III, paragraphs 14 and 15.

36. The TC agreed that it would not be appropriate to include the proposed guidance in document TGP/5, Section 11 “Examples of Policies and Contracts for Material Submitted by the Breeder”.

37. The TC agreed to invite the TWPs, at their sessions in 2024, to consider the elements proposed by the TWF and further experiences and policies on requesting plant material from breeders. The TC agreed that a suitable place to make this information available should be identified and not necessarily in a TGP document.

*TGP/7 Development of Test Guidelines, (Revision): Example varieties for asterisked quantitative characteristics when illustrations are provided*

38. The TC noted discussions on possible amendments to document TGP/7, GN 28 “Example Varieties” reported in document SESSIONS/2023/2, Annex III, paragraphs 16 to 26. The TC noted that the TWA had invited the expert from Germany to draft a proposal to amend the guidance in document TGP/7, GN 28, concerning the situations where illustrations could replace example varieties and their complementary role to clarify the states of expression of a characteristic for consideration at the TWPs, at their sessions in 2024.

*New proposals for revision of document TGP/7: ASW 3 – Explanation of the growing cycle*

39. The TC considered the proposal from TWF to amend the current standard wording of growing cycle for “fruit species with clearly defined dormant period” and agreed to invite the TWPs, at their sessions in 2024, to consider the proposed amendments to document TGP/7, ASW 3(a), as set out in document SESSIONS/2023/2, paragraph 69, and reproduced as follows:

“(a) Fruit species with clearly defined dormant period

“3.1.2 The growing cycle is considered to be the duration of a single growing season, beginning with the dormancy period, followed by bud burst (flowering and/or vegetative), flowering and fruit harvest and concluding when the following dormant period starts ends with the swelling of new season buds.”

*New proposals for revision of document TGP/7: ASW 7(b) – Number of plants / parts of plants to be examined*

40. The TC considered the proposal from the TWF to amend standard wording in Test Guidelines on the number of parts of single plants to be observed for distinctness to clarify that the number provided was an indication of minimum quantity. The TC agreed to invite the TWPs, at their sessions in 2024, to consider the proposed amendments to document TGP/7, Additional Standard Wording 7(b), as set out in document SESSIONS/2023/2, paragraph 70, and reproduced as follows:

“In the case of observations of parts taken from single plants, the number of parts to be taken from each of the plants should be at least { y }.”

*TGP/12: Guidance on Certain Physiological Characteristics*

41. The TC considered whether to amend document TGP/12 to include a table of equivalence of states of expression in Test Guidelines with terminology used in the vegetable seed sector, as set out in document SESSIONS/2023/2, paragraph 74, and reproduced as follows:

Equivalence of states of expression in UPOV Test Guidelines with the terminology used in the vegetable seed sector		
	State of expression in UPOV Test Guidelines	Terminology used in the vegetable seed sector*
UPOV notes	Resistance to (disease resistance name) is:	Reaction of a plant variety to a specific pest is:
1	absent or low	Susceptibility (S)
2	medium	Intermediate Resistance (IR)
3	high	High Resistance (HR)

\* Source: <https://worldseed.org/>

42. The TC agreed to invite the TWPs, at their sessions in 2024, to consider the proposal to amend document TGP/12 to include a table of equivalence of states of expression in Test Guidelines with terminology used in the vegetable seed sector. The TC agreed to invite the TWPs to consider whether to add an explanation that the table could be used in case of equivalence between the states of expression according to the method described in the explanation of the characteristic (Section 8.2 of the Test Guidelines).

UPOV information databases

43. The TC considered document SESSIONS/2023/3.

Updating botanical nomenclature of UPOV CODESUPOV codes for redundant genera in the GENIE database

44. The TC agreed to delete the UPOV codes for 53 redundant genera in the GENIE database, as presented in document SESSIONS/2023/3, paragraph 11, and reproduced as follows:

GENIE database		GRIN database	GENIE database	
Reclassified genera	Redundant UPOV code to be deleted	Accepted genera name in GRIN	UPOV code for the accepted genera in GRIN	Relevant Technical Working Party(s)
<i>Acanthopanax</i>	ACNTP	<i>Eleutherococcus</i>	ELEUT	TWO
<i>Acmena</i>	ACMEN	<i>Syzygium</i>	SYZYG	TWO, TWf
<i>Ajania</i>	AJANI	<i>Chrysanthemum</i>	CHRYC	TWO
<i>Ammophila</i>	AMMOP	<i>Calamagrostis</i>	CALMG	TWO
<i>Anagallis</i>	ANAGA	<i>Lysimachia</i>	LYSIM	TWO
<i>Belamcanda</i>	BELAM	<i>Iris</i>	IRISS	TWO
<i>Cardaria</i>	CARDA	<i>Lepidium</i>	LEPID	TWO, TWV
<i>Castalis</i>	CASTL	<i>Dimorphothea</i>	DIMOR	TWO
<i>Chamaecytisus</i>	CHMCT	<i>Cytisus</i>	CYTIS	TWO
<i>Cheiranthus</i>	CHEIR	<i>Erysimum</i>	ERYSI	TWO
<i>Cimicifuga</i>	CIMIC	<i>Actaea</i>	ACTAE	TWO
<i>Cnicus</i>	CNICU	<i>Centaurea</i>	CENTA	TWO
<i>Cochlioda</i>	COCHD	<i>Oncidium</i>	ONCID	TWO
<i>Coluria</i>	COLUR	<i>Geum</i>	GEUMM	TWO
<i>Crypsis</i>	CRYPs	<i>Sporobolus</i>	SPORO	TWO, TWA
<i>Daemonorops</i>	DAEMO	<i>Calamus</i>	CALAM	TWO
<i>Dichroa</i>	DICHR	<i>Hydrangea</i>	HYDRN	TWO
<i>Dodecatheon</i>	DODEC	<i>Primula</i>	PRIMU	TWO
<i>Fortunella</i>	FORTU	<i>Citrus</i>	CITRU	TWO, TWf
<i>Gaura</i>	GAURA	<i>Oenothera</i>	OENOT	TWO
<i>Hebe</i>	HEBEE	<i>Veronica</i>	VERON	TWO
<i>Hemidiodia</i>	HEMID	<i>Oenothera</i>	OENOT	TWO
<i>Hylocereus</i>	HYLOC	<i>Selenicereus</i>	SELEN	TWO, TWV, TWf
<i>Laurentia</i>	LAURE	<i>Lobelia</i>	LOBEL	TWO
<i>Lychnis</i>	LYCHN	<i>Silene</i>	SILEN	TWO, TWV
<i>Manfreda</i>	MANFR	<i>Agave</i>	AGAVE	TWO, TWV
<i>Manglietia</i>	MANGL	<i>Magnolia</i>	MAGNO	TWO
<i>Menziesia</i>	MENZI	<i>Rhododendron</i>	RHODD	TWO
<i>Miyamayomena</i>	MIYAM	<i>Aster</i>	ASTER	TWO
<i>Odontoglossum</i>	ODONT	<i>Oncidium</i>	ONCID	TWO
<i>Parakmeria</i>	PARAK	<i>Magnolia</i>	MAGNO	TWO
<i>Pedilanthus</i>	PEDIL	<i>Euphorbia</i>	EUPHO	TWO, TWV
<i>Pennisetum</i>	PENNI	<i>Cenchrus</i>	CENCH	TWO, TWA
<i>Poncirus</i>	PONCI	<i>Citrus</i>	CITRU	TWO, TWf
<i>Porphyra</i>	PORPH	<i>Callicarpa</i>	CALLC	TWO, TWV
<i>Pratia</i>	PRATI	<i>Lobelia</i>	LOBEL	TWO
<i>Pulsatilla</i>	PULSA	<i>Anemone</i>	ANEMO	TWO
<i>Rhagodia</i>	RHAGO	<i>Chenopodium</i>	CHENO	TWO, TWA
<i>Rollinia</i>	ROLLI	<i>Annona</i>	ANNON	TWf
<i>Schizophragma</i>	SCHIO	<i>Hydrangea</i>	HYDRN	TWO
<i>Sclerostachya</i>	SCLRS	<i>Miscanthus</i>	MISCA	TWO

GENIE database		GRIN database	GENIE database	
Reclassified genera	Redundant UPOV code to be deleted	Accepted genera name in GRIN	UPOV code for the accepted genera in GRIN	Relevant Technical Working Party(s)
<i>Sedirea</i>	SEDIR	<i>Phalaenopsis</i>	PHALE	TWO
<i>Sophronitis</i>	SOPHR	<i>Cattleya</i>	CATTL	TWO
<i>Stephanandra</i>	STEPH	<i>Neillia</i>	NEILL	TWO
<i>Tacitus</i>	TACIT	<i>Graptopetalum</i>	GRATP	TWO
<i>Taxodiomeria</i>	TAXDI	<i>Taxodium</i>	TAXOD	TWO
<i>Trichloris</i>	TRICL	<i>Leptochloa</i>	LPTOC	TWO
<i>Uncinia</i>	UNCIN	<i>Carex</i>	CAREX	TWO
<i>Vaccaria</i>	VACCA	<i>Gypsophila</i>	GYPPO	TWO
<i>Vetiveria</i>	VETIV	<i>Chrysopogon</i>	CHRPG	TWO
<i>Vulpia</i>	VULPI	<i>Festuca</i>	FESTU	TWO, TWA
<i>Waldsteinia</i>	WALDS	<i>Geum</i>	GEUMM	TWO
<i>Xanthocyparis</i>	XNTHC	<i>Cupressus</i>	CUPRE	TWO

#### Updating principal botanical names of species in the GENIE database following developments in GRIN

45. The TC considered the resource implications of the proposal to develop a systematic procedure for checking and updating the principal botanical names of species in the GENIE database to follow taxonomic developments in the GRIN. The TC agreed that the updates to principal botanical names of species in the database should continue to be provided in accordance with guidance in document INF/23 "Guidance to the UPOV Code system" or if a particular need was identified by UPOV members.

#### Replacing complex botanical nomenclature by variety groups

##### UPOV codes for *Brassica oleracea*

46. The TC agreed to create variety groups for the UPOV codes for *Beta vulgaris* L. ssp. *vulgaris* to replace complex infra-specific botanical names, as set out in document SESSIONS/2023/3, paragraph 20, and reproduced as follows:

UPOV code	BOTANICAL NAMES IN GENIE	BOTANICAL NAMES IN GRIN	GROUP NAME
BRASS_OLE_ALB	<i>Brassica oleracea</i> L. var. <i>alboglabra</i> (L. H. Bailey) Musil <i>Brassica alboglabra</i> L. H. Bailey; <i>Brassica oleracea</i> var. <i>albiflora</i> auct.	<i>Brassica oleracea</i> L. var. <i>alboglabra</i> (L. H. Bailey) Musil ( <i>Brassica oleracea</i> Chinese Kale or Kailaan Group)	<i>Brassica oleracea</i> L. (Chinese Kale or Kailaan Group)
BRASS_OLE_COS	<i>Brassica oleracea</i> L. var. <i>costata</i> DC. <i>Brassica capitata</i> subsp. <i>costata</i> (DC.) Lizg.; <i>Brassica oleracea</i> convar. <i>acephala</i> var. <i>luteola</i> Alef.; <i>Brassica oleracea</i> subsp. <i>oleracea</i> convar. <i>costata</i> (DC.) Gladis; <i>Brassica oleracea</i> var. <i>tranchuda</i> L.H. Bailey	<i>Brassica oleracea</i> L. var. <i>costata</i> DC. ( <i>Brassica oleracea</i> Portuguese Kale Group)	<i>Brassica oleracea</i> L. (Tronchuda Group)
BRASS_OLE_GA	<i>Brassica oleracea</i> L. convar. <i>acephala</i> (DC.) Alef.	<i>Brassica oleracea</i> L. var. <i>sabellica</i> L. ( <i>Brassica oleracea</i> Kale Group)	<i>Brassica oleracea</i> L. (Kale Group)
BRASS_OLE_GAM	<i>Brassica oleracea</i> L. convar. <i>acephala</i> (DC.) Alef. var. <i>medullosa</i> Thell. <i>Brassica oleracea</i> L. var. <i>medullosa</i> Thell.	<i>Brassica oleracea</i> L. var. <i>medullosa</i> Thell. ( <i>Brassica oleracea</i> Marrowstem Kale Group)	<i>Brassica oleracea</i> L. (Marrowstem Kale Group)
BRASS_OLE_GAR	<i>Brassica oleracea</i> L. var. <i>ramosa</i> DC.	<i>Brassica oleracea</i> L. var. <i>ramosa</i> DC. ( <i>Brassica oleracea</i> Thousand Head Kale Group)	<i>Brassica oleracea</i> L. (Thousand Head Kale Group)
BRASS_OLE_GAS	<i>Brassica oleracea</i> L. convar. <i>acephala</i> (DC.) Alef. var. <i>sabellica</i> L. <i>Brassica oleracea</i> L. var. <i>sabellica</i> L.	<i>Brassica oleracea</i> L. var. <i>sabellica</i> L. ( <i>Brassica oleracea</i> Acephala Group)	<i>Brassica oleracea</i> L. (Curly kale Group)
BRASS_OLE_GBB	<i>Brassica oleracea</i> L. convar. <i>acephala</i> (DC.) Alef. var. <i>viridis</i> L. <i>Brassica oleracea</i> L. var. <i>viridis</i> L.	<i>Brassica oleracea</i> L. var. <i>viridis</i> L. ( <i>Brassica oleracea</i> Collard Group)	<i>Brassica oleracea</i> L. (Collard Group)
BRASS_OLE_GBC	<i>Brassica oleracea</i> L. var. <i>italica</i> Plenck <i>Brassica oleracea</i> L. var. <i>botrytis</i> L. subvar. <i>cymosa</i> Duchesne; <i>Brassica oleracea</i> L. var. <i>cymosa</i> (Duchesne) DC.; <i>Brassica oleracea</i> subvar. <i>cymosa</i> Duchesne	<i>Brassica oleracea</i> L. var. <i>italica</i> Plenck ( <i>Brassica oleracea</i> Broccoli Group)	<i>Brassica oleracea</i> L. (Broccoli Group)



BRASS_OLE_GC	<i>Brassica oleracea</i> L. convar. <i>capitata</i> (L.) Alef. <i>Brassica oleracea</i> L. convar. <i>capitata</i> (L.) Alef. var. <i>alba</i> DC. x <i>Brassica oleracea</i> L. convar. <i>capitata</i> (L.) Alef. var. <i>rubra</i> (L.) Thell.; <i>Brassica oleracea</i> L. convar. <i>capitata</i> (L.) Alef. var. <i>capitata</i> (L.) Alef.; <i>Brassica oleracea</i> L. var. <i>capitata</i> L.	<i>Brassica oleracea</i> L. var. <i>capitata</i> L. ( <i>Brassica oleracea</i> Red Cabbage and White/Green Cabbage Groups)	<i>Brassica oleracea</i> L. (Cabbage Group)
BRASS_OLE_GCA	<i>Brassica oleracea</i> L. convar. <i>capitata</i> (L.) Alef. var. <i>alba</i> DC. <i>Brassica oleracea</i> L. convar. <i>capitata</i> (L.) Alef. var. <i>capitata</i> L. f. <i>alba</i> DC.	<i>Brassica oleracea</i> L. var. <i>capitata</i> L. ( <i>Brassica oleracea</i> White Cabbage Group)	<i>Brassica oleracea</i> L. (White Cabbage Group)
BRASS_OLE_GCR	<i>Brassica oleracea</i> L. convar. <i>capitata</i> (L.) Alef. var. <i>rubra</i> (L.) Thell. <i>Brassica oleracea</i> L. convar. <i>capitata</i> (L.) Alef. var. <i>capitata</i> L. f. <i>rubra</i> (L.) Thell.	<i>Brassica oleracea</i> L. var. <i>capitata</i> L. ( <i>Brassica oleracea</i> Red Cabbage Group)	<i>Brassica oleracea</i> L. (Red Cabbage Group)
BRASS_OLE_GCS	<i>Brassica oleracea</i> L. convar. <i>capitata</i> (L.) Alef. var. <i>sabauda</i> L. <i>Brassica oleracea</i> L. convar. <i>capitata</i> (L.) Alef. var. <i>bullata</i> DC.	<i>Brassica oleracea</i> L. var. <i>sabauda</i> L. ( <i>Brassica oleracea</i> Savoy Cabbage Group)	<i>Brassica oleracea</i> L. (Savoy Cabbage Group)
BRASS_OLE_GGM	<i>Brassica oleracea</i> L. var. <i>gemmifera</i> Zenker <i>Brassica oleracea</i> L. convar. <i>oleracea</i> var. <i>gemmifera</i> DC.; <i>Brassica subspontanea</i> lizg	<i>Brassica oleracea</i> L. var. <i>gemmifera</i> DC. ( <i>Brassica oleracea</i> Brussels Sprouts Group)	<i>Brassica oleracea</i> L. (Brussels Sprouts Group)
BRASS_OLE_GGO	<i>Brassica oleracea</i> L. var. <i>gongylodes</i> L. <i>Brassica caulorapa</i> (DC.) Pasq.; <i>Brassica oleracea</i> L. convar. <i>acephala</i> (DC.) Alef. var. <i>gongylodes</i> L.; <i>Brassica oleracea</i> var. <i>caulorapa</i> DC.	<i>Brassica oleracea</i> L. var. <i>gongylodes</i> L. ( <i>Brassica oleracea</i> Kohlrabi Group)	<i>Brassica oleracea</i> L. (Kohlrabi Group)
BRASS_OLE_PAL	<i>Brassica oleracea</i> L. var. <i>palmifolia</i> DC.	<i>Brassica oleracea</i> L. var. <i>palmifolia</i> DC. ( <i>Brassica oleracea</i> Jersey Kale or Palmtree Kale Group)	<i>Brassica oleracea</i> L. (Palm Kale Group)

#### UPOV codes for *Cichorium intybus*

47. The TC agreed to create variety groups for the UPOV codes for *Cichorium intybus*, as set out in document SESSIONS/2023/3, paragraph 25, and reproduced as follows:

UPOV code	Botanical names in GENIE	GRIN	Proposed Group name	English	French	German	Spanish
CICHO_INT_1WIT	<i>Cichorium intybus</i> L.	<i>Cichorium intybus</i> L.	Witloof Chicory Group	Witloof chicory	Endive	Chicorée	Endivia
CICHO_INT_FOL	<i>Cichorium intybus</i> L. var. <i>foliosum</i> Hegi	<i>Cichorium intybus</i> L.	Leaf Chicory Group	Salad Chicory; Leaf chicory	Chicorée à feuille; Chicorée italienne	Salatzichorie	Achicoria
CICHO_INT_SAT	<i>Cichorium intybus</i> L. var. <i>sativum</i> DC.	<i>Cichorium intybus</i> L.	Industrial Chicory Group	Industrial Chicory; Large-rooted Chicory	Chicorée à café	Wurzelzichorie	Achicoria de café
CICHO_INT_2FOR	<i>Cichorium intybus</i> L.	<i>Cichorium intybus</i> L.	Forage Chicory Group	Forage Chicory	Chicorée fourrage	Futterzichorie	Achicoria forrajera

#### UPOV codes for *Zea mays*

48. The TC agreed to delete the UPOV code ZEAAA\_MAY\_MIC, which would be replaced by the UPOV code ZEAAA\_MAY\_EVE.

49. The TC agreed to amend the UPOV codes ZEAAA\_MAY\_EVE, ZEAAA\_MAY\_MAY and ZEAAA\_MAY\_SAC and associated information to establish the variety groups “Popcorn”, “Sweet Corn” and “Maize”, as set out in document SESSIONS/2023/3, paragraph 31, and reproduced as follows:

Current			Proposal			
UPOV code	Principal botanical name	Other botanical name(s)	UPOV code	Principal botanical name	Other botanical name(s)	Note
ZEAAA_MAY_EVE	<i>Zea mays</i> L. var. <i>everta</i> (Praecox) Sturt.	n.a.	ZEAAA_MAY_GPO	<u><i>Zea mays</i> L. subsp. <i>mays</i> Popcorn Group</u>	<i>Zea mays</i> L. var. <i>everta</i> (Praecox) Sturt.; <i>Zea mays</i> L. convar. <i>microsperma</i> Koern.	Addition of new synonym previously under ZEAAA_MAY_M IC
ZEAAA_MAY_MIC	<i>Zea mays</i> L. convar. <i>microsperma</i> Koern.	n.a.	[to delete]	n.a.	n.a.	Principal botanical name added as other botanical name under <i>Z. mays</i> L. subsp. <i>mays</i> Popcorn Group
ZEAAA_MAY_SAC	<i>Zea mays</i> L. <i>saccharata</i> Koern.	n.a.	ZEAAA_MAY_GSW	<u><i>Zea mays</i> L. subsp. <i>mays</i> Sweet Corn Group</u>	<i>Zea mays</i> var. <i>saccharata</i> (Sturtev.) L. H. Bailey; <i>Zea mays</i> L. <i>saccharata</i> Koern.	
ZEAAA_MAY_MAY	<i>Zea mays</i> L. subsp. <i>mays</i>	<i>Zea mays</i> var. <i>ceratina</i> L.; <i>Zea mays</i> var. <i>indentata</i> (Sturtev.) L. H. Bailey; <i>Zea mays</i> var. <i>indurata</i> (Sturtev.) L. H. Bailey; <i>Zea mays</i> var. <i>saccharata</i> (Sturtev.) L. H. Bailey	ZEAAA_MAY_GMA	<u><i>Zea mays</i> L. subsp. <i>mays</i> Maize Group</u>	<i>Zea mays</i> var. <i>ceratina</i> L.; <i>Zea mays</i> var. <i>indentata</i> (Sturtev.) L. H. Bailey; <i>Zea mays</i> var. <i>indurata</i> (Sturtev.) L. H. Bailey; <del><i>Zea mays</i> var. <i>saccharata</i> (Sturtev.) L. H. Bailey;</del> <del><i>Zea mays</i> L. <i>saccharata</i> Koern.;</del> <del><i>Zea mays</i> L. var. <i>everta</i> (Praecox) Sturt.;</del> <del><i>Zea mays</i> L. convar. <i>microsperma</i> Koern.</del>	Reduction of scope to delete Sweet Corn and Popcorn

50. The TC agreed to invite the Office of the Union to consult contributors to the PLUTO database using UPOV code ZEAAA\_MAY\_MAY whether to allocate existing entries to *Zea mays* ssp. *mays* Group Maize.

Proposed amendments to Upov codes considered by the TWO in 2023

51. The TC agreed to delete and amend the UPOV Codes CLEOM\_HAS, CLEOM\_SPI, EPIPH\_ANG, CALAT\_CRO, CALAT\_LOE, CALAT\_ROS, CALAT\_WAR, CALAT\_LRO, OSTEO\_ECK, OSTEO\_FRU, OSTEO\_ECC, CASTL\_TRA, BERBE\_AQU, BERBE\_EUR, BERBE\_NIT, BERBE\_PUM, BERBE\_REP, DESCH\_FLE, UNCIN, UNCIN\_DIV, UNCIN\_EGM, UNCIN\_RUB and UNCIN\_UNC, as set out in document SESSIONS/2023/3, paragraphs 34 to 57.

*Matters for information*

52. The TC noted the matters provided for information in document SESSIONS/2023/3.

Measures to enhance cooperation in examination

53. The TC noted the developments reported in document SESSIONS/2023/4, including the survey of members of the Union for information on policies or legal barriers that could prevent international cooperation

in DUS examination. The TC noted that the CAJ would be invited to consider the document and possible measures to increase opportunities for international cooperation in DUS examination at its eightieth session.

54. The TC agreed to support the exchange of information from UPOV members on practices in DUS examination, including events to discuss the environmental effect in the expression of characteristics and variety collections.

55. The TC agreed there was an opportunity to increase the exchange of information, including the possibility to organize events to discuss arrangements for testing at breeders' premises, criteria for independence and avoiding conflict of interests.

Increasing participation of new members of the Union in work of the TC and restructuring the work of the TWPs

56. The TC considered document TC/59/5.

*Recommendations on the proposals in document TC/58/18 "Survey on the needs of members and observers in relation to TWPs"*

57. The TC agreed with the recommendations in document TC/59/5, paragraphs 11 to 54, subject to the following amendments:

[12] to read: It is **recommended** [12] that matters for information be made available online on the UPOV website as documents or pre-recorded videos and presented during the session as agreed by the chairperson.

[17] to read: It is **recommended** [17] that seminars on testing methods and techniques and other developments in DUS examination might be organized along with meetings of the Technical Committee as a means to increase awareness of developments.

[18] to read: It is **recommended** [18] that exhibitions of research with poster sessions might be considered along with the seminars held in conjunction with the Technical Committee meetings as a means of increasing awareness of developments. Information from the poster sessions should also be made available to experts not physically present at the TC sessions.

Performance indicator to read: "Percentage of PVP applications in UPOV members covered by UPOV Test Guidelines"

58. The TC considered recommendations [22] and [23] on Test Guidelines subgroups and agreed to add a new recommendation on developing guidance on the role of leading experts.

59. The TC agreed that the efficiency of the performance indicators should be reviewed periodically along with the implementation of the recommendations in this document.

*Possible implementing measures*

60. The TC agreed that recommendations in document TC/59/5 could be grouped by affinity and implemented through similar measures. The TC agreed the following implementing measures:

- (a) Already implemented: [40]
- (b) No action required: [2]; [3]; [8]; [9]; [19]; [20]; [42]
- (c) UPOV Office will implement: [4]; [12]; [33]; [34]
- (d) UPOV Office will implement with TWP host and document "guidance for hosts of TWPs": [5]; [6]; [7]; [10]; [11]; [13]; [14]; [15];
- (e) UPOV Office will implement with TC and TWP chairpersons: [16]; [17]; [18]; [35]; [36]; [37]
- (f) UPOV Office to provide reports to TC on annual basis starting in 2024: [43]
- (g) UPOV Office to invite TC to consider on annual basis starting in 2024: [44]; [45]
- (h) UPOV Office to develop proposals for TC in 2024: [27]; [29]; [30]; [31]; [32]; [38]; [39]; [41]
- (i) Test Guidelines: [21]; [22]; [23]; [24]; [25]; [26]; [28]

61. The TC agreed that recommendations on Test Guidelines ([21]; [22]; [23]; [24]; [25]; [26] and [28]) encompassed a range of aspects, including the nature and structure of the online tool for drafting Test Guidelines (web-based TG template) and the structure of the Test Guidelines themselves. The TC agreed to establish a subgroup as follows:

1. The purpose of the subgroup is to develop options for consideration by the Technical Committee, at its sixtieth session, to address recommendations on Test Guidelines presented in document TC/59/5, including options on the online tool for drafting Test Guidelines (web-based TG template) (recommendations [21]; [22]; [23]; [24]; [25]; [26] and [28]).
2. The subgroup should identify needs and develop options on the following main areas and should clarify their interrelation:
  - improvement of the UPOV Test Guidelines structure
  - specific requirements of Technical Questionnaires for use in UPOV PRISMA.
  - creation of national test guidelines, including the use of machine translation;
3. The options developed should facilitate the work of drafters and the Office of the Union. Any modification of the TG structure should facilitate understanding and clarity of the final document for technical experts and plant breeders.
4. The following aspects should be considered:
  - Issues related to UPOV Test Guidelines and the TG-Template, such as:
    - Develop TG format that would enable easier drafting and downloading in a range of formats used by UPOV members, including electronic equipment
    - Review possibilities to improve explanations on methods and assessments with references (links) to guidance in TGP documents
    - Improve links to ensure coherence of information applicable to different sections of the TG (e.g. materials, methods, assessment of characteristics and technical questionnaire)
    - Improve possibilities to include images, tables and elements other than text
    - Minimize the need of UPOV Office staff intervention to format and correct documents generated from the tool
    - Facilitate translating Test Guidelines into the four official UPOV languages, e.g. in relation to format barriers including quadrilingual tables
    - Facilitate machine translation of UPOV TGs into languages of UPOV members
  - Developing national test guidelines
    - Facilitate converting UPOV Test Guidelines into national test guidelines, including any changes and adjustments required
    - Enable drafting national test guidelines using the UPOV TG template for crops with no UPOV Test Guidelines
5. Other aspects could be proposed by the subgroup for consideration.
6. The subgroup should meet by physical and/or virtual means at a time and frequency to address its mandate as required. The subgroup should present draft options for consideration by the Technical Working Parties, at their sessions in 2024. The outcome of discussions should be presented for consideration by the TC, at its sixtieth session.
7. The subgroup should be coordinated by a leading expert from the United Kingdom, Ms. Margaret Wallace, and will be composed by experts from AR, AU, BR, BY, CA, CL, CN, DE, EU, FR, GH, JP, KE, NL, NZ, TZ, US, ZA and ISF and will be open to members and observers.

*TWV and TWF 2023 hybrid meetings participants' satisfaction survey*

62. The TC noted the satisfaction survey conducted with participants at the hybrid meetings of the TWV and TWF in 2023, as presented in document TC/59/5, Annex III.

#### Preparatory workshops

63. The TC considered document TC/59/6.

64. The TC agreed to organize preparatory workshops in 2024 as a series of webinars, at suitable dates according to the schedule of TWP sessions, in conjunction with workshops with physical participation, where requested, as set out in document TC/59/6, paragraphs 17 to 20.

65. The TC noted that the detailed arrangements concerning the webinars would be finalized by the Office of the Union in coordination with the chairpersons of the TC and TWPs.

66. The TC agreed to rename the agenda item to read “TWP workshops and webinars”.

#### Molecular techniques

67. The TC considered document SESSIONS/2023/5.

##### *Confidentiality & ownership of molecular information*

68. The TC noted the policies reported and discussions on confidentiality of molecular information at the TWP sessions in 2023.

69. The TC agreed to repeat the invitation for members and observers to report existing policies on confidentiality of molecular information at the TWPs, at their sessions in 2024.

##### *Discussion on molecular techniques in DUS examination*

70. The TC received the following presentations on molecular techniques in DUS examination:

Molecular Techniques in DUS examination - Argentine position	Argentina (Ms. Ana Laura Vicario)
Enhancement of Characterization and Variety Identification Technology in the Plant Variety Protection System - Assessment of type of bearing for Strawberry Varieties by using DNA marker	Japan (Mr. Yoshiyuki Ohno)
Delivering PBR for the future	United Kingdom (Mr. Sigurd Ramans-Harborough)

#### Matters for information

71. The TC noted that the following document were posted as documents for information on the TC/59 webpage:

- (a) List of genera and species for which authorities have practical experience in the examination of distinctness, uniformity and stability (document TC/59/4)
- (b) Meetings on Electronic Applications (EAM) (document SESSIONS/2023/6)
- (c) Variety description databases (document TC/59/7)
- (d) Web-based TG template (document TC/59/5)

72. The TC received a presentation from the Office of the Union on developments in UPOV E-PVP, a copy of which is provided in document SESSIONS/2023/6.

## Test Guidelines

73. The TC considered document TC/59/2.

### *Additional characteristics / states of expression*

74. The TC noted that no additional states of expression or characteristics had been notified to the Office of the Union since the fifty-eighth session of the TC.

75. The TC agreed to post on the TG Drafters' webpage of the UPOV website the additional characteristic notified by the European Union for the Test Guidelines for Lettuce ("Resistance to *Bremia lactucae* (BI) Isolate PT2036"), as set out in document TC/59/2, Annex I.

### *Test Guidelines for Broccoli (document TG/151/5)*

76. The TC agreed with the proposal from the TWV to revise characteristic "male sterility" in the Test Guidelines for Broccoli (document TG/151/5) along with the revision of all other *Brassica oleracea* species.

### *Test Guidelines for adoption*

77. On the basis of the recommendations of the TC-EDC, as set out in Annex II of this document, the TC agreed to adopt the following Test Guidelines:

TWP		Document No. No. du document Dokument-Nr. No del documento	English	Français	Deutsch	Español	Botanical name
<u>NEW TEST GUIDELINES / NOUVEAUX PRINCIPES DIRECTEURS D'EXAMEN / NEUE PRÜFUNGSRICHTLINIEN / NUEVAS DIRECTRICES DE EXAMEN</u>							
JP	TWO	TG/OXYPE_CAE (proj.3)	Oxypetalum	Oxypetalum	Oxypetalum	Oxipetalum	<i>Oxypetalum coeruleum</i> (D. Don) Decne.
<u>REVISIONS OF ADOPTED TEST GUIDELINES / RÉVISIONS DE PRINCIPES DIRECTEURS D'EXAMEN ADOPTÉS / REVISIONEN ANGENOMMENER PRÜFUNGSRICHTLINIEN / REVISIONES DE DIRECTRICES DE EXAMEN ADOPTADAS</u>							
DE	TWF	TG/14/10(proj.8)	Apple	Pommier	Apfel	Manzano	<i>Malus domestica</i> (Suckow) Borkh.
GB	TWA	TG/36/7(proj.5)	Oilseed Rape	Colza	Raps	Colza	<i>Brassica napus</i> L. ssp. <i>nappus</i>
DE	TWF	TG/43/8(proj.4)	Raspberry; Black Raspberry	Framboisier	Himbeere	Frambueso	<i>Rubus occidentalis</i> L., <i>Rubus idaeus</i> L.
JP	TWV	TG/90/7(proj.6)	Kale	Chou kale	Kale	Kale	<i>Brassica oleracea</i> L. var. <i>medullosa</i> Thell., <i>Brassica oleracea</i> L. var. <i>viridis</i> L., <i>Brassica oleracea</i> L. var. <i>costata</i> DC., <i>Brassica oleracea</i> L. var. <i>sabellica</i> L., <i>Brassica oleracea</i> L. var. <i>palmifolia</i> DC.
DE	TWA	TG/134/4(proj.2)	Safflower	Carthame	Safflor	Cártamo	<i>Carthamus tinctorius</i> L.
<u>PARTIAL REVISIONS OF ADOPTED TEST GUIDELINES / RÉVISIONS PARTIELLES DE PRINCIPES DIRECTEURS D'EXAMEN ADOPTÉS / TEILREVISIONEN ANGENOMMENER PRÜFUNGSRICHTLINIEN / REVISIONES PARCIALES DE DIRECTRICES DE EXAMEN ADOPTADAS</u>							
NL	TWV	TC/59/9, TG/151/5	Broccoli	Brocoli	Brokkoli	Brócoli	<i>Brassica oleracea</i> L. var. <i>italica</i> Plenck)

TWP	Document No. No. du document Dokument-Nr. No del documento	English	Français	Deutsch	Español	Botanical name	
NL	TWV	TC/59/10, TG/54/7 Rev.	Brussels Sprouts	Chou de Bruxelles	Rosenkohl	Col de Bruselas	<i>Brassica oleracea</i> L. var. <i>gemmifera</i> DC.
NL	TWV	TC/59/11, TG/48/7 Rev.	Cabbage	Chou pommé	Wirsing	Col repollo	<i>Brassica oleracea</i> L.: <i>Brassica</i> (White Cabbage Group); <i>Brassica</i> (Savoy Cabbage Group); <i>Brassica</i> (Red Cabbage Group)
	TWV	TC/59/12, TG/49/8 Corr.	Carrot	Carotte	Möhre	Zanahoria	<i>Daucus carota</i> L.
NL	TWV	TC/59/13, TG/45/7 Rev.	Cauliflower	Chou-fleur	Blumenkohl	Coliflor	<i>Brassica oleracea</i> L. convar <i>botrytis</i> (L.) Alef. var. <i>botrytis</i> L.
NL	TWV	TC/59/14, TG/75/7	Cornsalad	Mâche	Feldsalat	Hierba de los canónigos	<i>Valerianella locusta</i> L.; <i>Valerianella</i> <i>eriocarpa</i> Desv.
	TWV	TC/59/15, TG/61/7 Rev. 2 Corr. 2	Cucumber, Gherkin	Concombre, Cornichon	Gurke	Pepino, Pepinillo	<i>Cucumis sativus</i> L.
NL	TWV	TC/59/17, TG/65/4 Rev.	Kohlrabi	Chou-rave	Kohlrabi	Colinabo	<i>Brassica oleracea</i> L. convar. <i>acephala</i> (DC.) Alef. var. <i>gongylodes</i> L. ( <i>Brassica oleracea</i> L. <i>Gongylodes</i> Group)
QZ	TWV/ TWA	TC/59/19, TG/2/7	Maize	Maïs	Mais	Maíz	<i>Zea mays</i> L.
FR	TWV	TC/59/21, TG/63/7-TG/64/7 Rev. Corr.	Radish; Black Radish	Radis rave, Radis de tous les mois	Rettich, Radieschen	Rábano de invierno, Rábano negro, Rabanito, Rábano	<i>Raphanus sativus</i> L. var <i>sativus</i> ; <i>Raphanus</i> <i>sativus</i> L. var. <i>niger</i> (Mill.) S. Kerner
NL	TWV	TC/59/23, TG/89/6 Rev.	Swede, Rutabaga	Rutabaga, Chou- navet	Kohlrübe	Colinabo L. var. <i>napobrassica</i> (L.) Rchb.	<i>Brassica napus</i> L. var. <i>napobrassica</i> (L.) Rchb.
NL	TWV	TC/59/25, TG/142/5 Rev.	Watermelon	Pastèque	Wassermelone	Sandía	<i>Citrullus lanatus</i> (Thunb.) Matsum. et Naka
NL	TWO	TC/59/26, TG/283/1 Rev.	Oncidium; xOncidesa; xlonocidium, xZelenkocidium	Oncidium; xOncidesa; xlonocidium, xZelenkocidium	Oncidium; xOncidesa; xlonocidium, xZelenkocidium	Oncidium; xOncidesa; xlonocidium, xZelenkocidium	<i>Oncidium</i> Sw.; x <i>Oncidesa</i> Hort.; x <i>lonocidium</i> Hort.; x <i>Zelenkocidium</i> J.M.H.Shaw.
	TWV	TC/59/27, TG/294/1 Corr. Rev. 4	Tomato Rootstocks	Porte-greffe de tomate	Tomatenunter- tomate	Portainjertos de tomate	<i>Solanum</i> <i>habrochaites</i> S. Knapp & D.M. Spoonier; <i>Solanum</i> <i>lycopersicum</i> L. x <i>Solanum</i> <i>habrochaites</i> S. Knapp & D.M. Spoonier; <i>Solanum</i> <i>lycopersicum</i> L. x <i>Solanum peruvianum</i> (L.) Mill.; <i>Solanum</i> <i>pimpinellifolium</i> L. x <i>Solanum</i> <i>habrochaites</i> S. Knapp & D.M. Spoonier

78. UPOV has adopted 338 Test Guidelines, which are freely available on the UPOV website ([http://www.upov.int/test\\_guidelines/en/](http://www.upov.int/test_guidelines/en/)).

79. On the basis of the recommendations of the TC-EDC, as set out in Annex II of this document, the TC agreed there were editorial clarifications required from the leading experts for the draft Test Guidelines for Weigela and partial revision of the Test Guidelines for Industrial Chicory.

80. The TC noted that the following draft Test Guidelines had not been considered by the TC-EDC, at its meeting on October 17, 18 and 23, 2023, and would be considered at its subsequent meeting:

TWP		Document No. No. du document Dokument-Nr. No del documento	English	Français	Deutsch	Español	Botanical name
<u>NEW TEST GUIDELINES / NOUVEAUX PRINCIPES DIRECTEURS D'EXAMEN / NEUE PRÜFUNGSRICHTLINIEN / NUEVAS DIRECTRICES DE EXAMEN</u>							
JP	TWF	TG/MORUS(proj.6)	Mulberry				<i>Morus</i> L.
<u>REVISIONS OF ADOPTED TEST GUIDELINES / RÉVISIONS DE PRINCIPES DIRECTEURS D'EXAMEN ADOPTÉS / REVISIONEN ANGENOMMENER PRÜFUNGSRICHTLINIEN / REVISIONES DE DIRECTRICES DE EXAMEN ADOPTADAS</u>							
FR	TWF	TG/35/8(proj.5)	Sweet Cherry	Cerisier doux	Süsskirsche	Cerezo dulce	<i>Prunus avium</i> (L.) L.
NL	TWV	TG/44/12(proj.4)	Tomato	Tomate	Tomate	Tomate	<i>Solanum lycopersicum</i> L. x <i>Solanum pimpinellifolium</i> L., <i>Solanum lycopersicum</i> L. x <i>Solanum cheesmaniae</i> (L. Ridley) Fosberg, <i>Solanum lycopersicum</i> L.
IT	TWF	TG/50/10(proj.7)	Grapevine	Vigne	Rebe	Vid	<i>Vitis</i> L.
NL	TWV	TG/76/9(proj.6)	Sweet Pepper, Hot Pepper, Paprika, Chili	Piment, Poivron	Paprika	Aji, Chile, Pimiento	<i>Capsicum annuum</i> L.
KR	TWV	TG/105/5(proj.4)	Chinese Cabbage	Chou chinois	Chinakohl	Repollo chino	hybrids between <i>Brassica rapa</i> L. Emend. Metzg. ssp. <i>pekinensis</i> (Lour.) Hanelt and <i>Brassica rapa</i> L. Emend. Metzg. ssp. <i>chinensis</i> (L.) Hanelt, hybrids between <i>Brassica rapa</i> L. Emend. Metzg. ssp. <i>pekinensis</i> (Lour.) Hanelt and <i>Brassica rapa</i> L. var. <i>rapa</i> (L.) Thell., <i>Brassica rapa</i> L. subsp. <i>pekinensis</i> (Lour.) Kitam., <i>Brassica x turicensis</i> O. E. Schulz & Thell.
NL	TWO	TG/181/4(proj.4)	Amaryllis	Amaryllis	Amaryllis	Amarilis	<i>Hippeastrum</i> Herb.
QZ	TWO	TG/194/2(proj.4)	Lavandula/ Lavender	Lavande vraie, Lavandins	Echter Lavendel, Lavendel	Lavándula, Lavenda	<i>Lavandula</i> L.
HU	TWF	TG/230/2(proj.4)	Sour Cherry; Duke Cherry	Griotte, Cerisier acide	Sauerkirsche	Cerezo ácido, Guindo; Cerezo Duke	<i>Prunus xgondouinii</i> (Poit. & Turpin) Rehder, <i>Prunus cerasus</i> L.
<u>PARTIAL REVISIONS OF ADOPTED TEST GUIDELINES / RÉVISIONS PARTIELLES DE PRINCIPES DIRECTEURS D'EXAMEN ADOPTÉS / TEILREVISIONEN ANGENOMMENER PRÜFUNGSRICHTLINIEN / REVISIONES PARCIALES DE DIRECTRICES DE EXAMEN ADOPTADAS</u>							
NL	TWV	TC/59/18, TG/13/11 Rev. 2	Lettuce	Laitue	Salat	Lechuga	<i>Lactuca sativa</i> L.
FR	TWV	TC/59/20, TG/104/5 Rev. 2	Melon	Melon	Melone	Melón	<i>Cucumis melo</i> L.
NL	TWV	TC/59/22, TG/55/7 Rev. 6	Spinach	Épinard	Spinat	Espinaca	<i>Spinacia oleracea</i> L.



TWP		Document No. No. du document Dokument-Nr. No del documento	English	Français	Deutsch	Español	Botanical name
FR	TWV	TC/59/24, TG/119/4 Corr. 2	Vegetable Marrow, Squash	Courgette	Zucchini	Calabacín	<i>Cucurbita pepo</i> L.

*Test Guidelines adopted by correspondence in 2023*

81. The TC noted that 4 revised Test Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability, as listed in the table below, had been adopted by correspondence on the basis of the amendments specified in Annex II to this document and the linguistic changes recommended by the TC-EDC:

TWP	Document No. No. du document Dokument-Nr. No del documento	English	Français	Deutsch	Español	Botanical name	
<u>REVISIONS OF ADOPTED TEST GUIDELINES / RÉVISIONS DE PRINCIPES DIRECTEURS D'EXAMEN ADOPTÉS /</u> <u>REVISIONEN ANGENOMMENER PRÜFUNGSRICHTLINIEN / REVISIONES DE DIRECTRICES DE EXAMEN ADOPTADAS</u>							
DE	TWF	TG/22/11	Strawberry	Fraisier	Erdbeere	Fresa, Frutilla	<i>Fragaria</i> L.
HU	TWA	TG/81/7	Sunflower	Tournesol	Sonnenblume	Girasol	<i>Helianthus annuus</i> L.
DE	TWO	TG/94/7	Ling, Scots Heather	Callune	Besenheide	Calluna	<i>Calluna vulgaris</i> (L.) Hull
NL	TWA	TG/168/4	Statice	Statice	Statice	Limonium	<i>Limonium</i> Mill.; <i>Goniolimon</i> Boiss.; <i>Psylliostachys</i> (Jaub. & Spach) Nevski

*Corrections to Test Guidelines*

82. The TC noted the corrections to be made to the adopted Test Guidelines for Wheat and Leaf Chicory:

(a) TG/3/12 Wheat

The correction concerns the following item only in the French version of the Test Guidelines:

- Technical questionnaire: Characteristic 5.7 (17): to add missing state of expression (3) "awns present".

(b) TG/154/4 Rev. Leaf Chicory

The correction concerns the following item:

- Table 1: to use same number for the states of expression as in characteristic 24; and "circular to oblate" to read "oblate to circular"

*Draft Test Guidelines discussed by the TWPs in 2023*

83. The TC noted the draft Test Guidelines discussed by the TWPs, at their sessions in 2023, as listed in document TC/59/2, Annex IV.

*Draft Test Guidelines to be discussed by the TWPs in 2024*

84. The TC agreed with the program for the development of new Test Guidelines and for the revision of adopted Test Guidelines, as set out in document TC/59/2, Annex V.

*Status of existing Test Guidelines or draft Test Guidelines*

85. The TC noted the list of existing Test Guidelines, as presented on the UPOV website (see: [https://www.upov.int/test\\_guidelines/en/list.jsp](https://www.upov.int/test_guidelines/en/list.jsp)).

86. The TC noted that the superseded versions of Test Guidelines are available on the "Superseded Test Guidelines" page of the UPOV website ([https://www.upov.int/test\\_guidelines/en/list\\_supersede.jsp](https://www.upov.int/test_guidelines/en/list_supersede.jsp)).

*Program of work for the Enlarged Editorial Committee (TC-EDC) in 2024*

87. The TC agreed to propose to the Council that the TC-EDC should meet from 2024 at the following dates:

- Week 3 [January 15, 2024, at 9 p.m. Geneva time and January 17, at 11 a.m. Geneva time (via electronic means)]
- Week 12 [March 19 and 20, 2024, meeting time to be defined (via electronic means)]
- During UPOV sessions [October 21, 2024 (evening) (hybrid meeting)]

Matters for information

88. The TC noted that the following documents have been posted as documents for information on the TC/59 webpage:

- (a) List of genera and species for which authorities have practical experience in the examination of distinctness, uniformity and stability (document TC/59/4)
- (b) Meetings on Electronic Applications (EAM) (document SESSIONS/2023/6)
- (c) Variety description databases (document TC/59/7)
- (d) Web-based TG template (document TC/59/5)

Program for the sixtieth session

89. The TC considered the organization of an open discussion session at its sixtieth session and agreed to invite presentation on disease resistance characteristics in DUS examination. The TC agreed that the structure of open discussion session and outline of the topics be prepared in consultation with the chairpersons of the TC and TWPs, Argentina, Australia, China, France, Japan, Netherlands, European Union, United Kingdom, United States of America, CropLife, CIOFORA, Euroseeds and ISF.

90. The TC agreed the following program for its sixtieth session to be held on October 21 and 22, 2024:

1. Opening of the session
2. Adoption of the agenda
3. Report by the Vice Secretary-General on developments in UPOV
4. Progress reports on the work of the Technical Working Parties
5. Matters arising from the Technical Working Parties
6. Development of guidance and documents proposed for adoption by the Council
7. Measures to enhance cooperation in examination
8. Measures to improve support provided for DUS examination
9. Molecular techniques
10. UPOV information databases
11. TWP workshops and webinars
12. Discussion on: Disease resistance characteristics in DUS examination
13. Matters for information:
  - (a) Meetings on Electronic Applications (EAM)
  - (b) List of genera and species for which authorities have practical experience in the examination of distinctness, uniformity and stability
14. Test Guidelines
15. Program for the sixty-first session
16. Adoption of the report (if time permits)
17. Closing of the session

*91. The TC adopted this report at the close of its session on October 24, 2023.*

[Annex I follows]

I. MEMBRES / MEMBERS / VERBANDSMITGLIEDER / MIEMBROSAFRIQUE DU SUD / SOUTH AFRICA / SÜDAFRIKA / SUDÁFRICA

Noluthando NETNOU-NKOANA (Ms.), Director, Genetic Resources, Department of Agriculture, Rural development and Land Reform, Pretoria  
(e-mail: noluthandon@daff.gov.za)

Thapelo Martin SEKELE (Mr.), Variety Control Registration Officer, Scientist Production, Genetic Resources, Plant Breeder's Rights, Department of Agriculture, Land Reform and Rural Development, Pretoria  
(e-mail: ThapeloS@dalrrd.gov.za)

ALLEMAGNE / GERMANY / DEUTSCHLAND / ALEMANIA

Beate RÜCKER (Ms.), Head of Division, Federal Plant Variety Office, Bundessortenamt, Hanover  
(e-mail: beate.ruecker@bundessortenamt.de)

ARGENTINE / ARGENTINA / ARGENTINIEN / ARGENTINA

Silvana BABBITT (Sra.), Presidenta, Instituto Nacional de Semillas (INASE), Secretaría de Agricultura, Ganadería, Pesca y Alimentación, Buenos Aires  
(e-mail: sbabbitt@inase.gob.ar)

María Laura VILLAMAYOR (Sra.), Coordinadora de Relaciones Institucionales e Interjurisdiccionales, Instituto Nacional de Semillas (INASE), Secretaría de Agricultura, Ganadería, Pesca y Alimentación, Buenos Aires  
(e-mail: mlvillamayor@inase.gob.ar)

Ana Laura VICARIO (Sra.), Directora Nacional de Desarrollo de Semillas, Instituto Nacional de Semillas (INASE), Secretaría de Agricultura, Ganadería, Pesca y Alimentación, Buenos Aires  
(e-mail: alvicario@inase.gob.ar)

Mariano Alejandro MANGIERI (Mr.), Director, Plant Variety Protection Office, National Seed Institute (INASE), Secretaría de Agricultura, Ganadería, Pesca y Alimentación, Buenos Aires  
(e-mail: mmangieri@inase.gob.ar)

AUSTRALIE / AUSTRALIA / AUSTRALIEN / AUSTRALIA

Edwina VANDINE (Ms.), Chief of Plant Breeders' Rights, Plant Breeder's Rights Office, IP Australia, Woden  
(e-mail: edwina.vandine@ipaustralia.gov.au)

Andrew HALLINAN (Mr.), Senior Examiner, Plant Breeders Rights Office, IP Australia, Woden  
(e-mail: andrew.hallinan@ipaustralia.gov.au)

Isabel Louise WARD (Ms.), Assistant Director, Plant Breeder's Rights, IP Australia, Woden  
(e-mail: Isabel.Ward@ipaustralia.gov.au)

AUTRICHE / AUSTRIA / ÖSTERREICH / AUSTRIA

Jutta TAFERNER-KRIEGL (Ms.), Head of department for DUS testing and Plant Variety Protection, Österreichische Agentur für Gesundheit und Ernährungssicherheit GmbH, Wien  
(e-mail: jutta.taferner-kriegl@ages.at)

BÉLARUS / BELARUS / BELARUS / BELARÚS

Uladzimir BEINIA (Mr.), Director, State Inspection for Testing and Protection of Plant Varieties, Minsk  
(e-mail: belsort@mail.ru)

Tatsiana SIAMASHKA (Ms.), Deputy Director, State Inspection for Testing and Protection of Plant Varieties, Minsk  
(e-mail: belsort@mail.ru)

Maryna SALADUKHA (Ms.), Deputy Head, International Cooperation Department, State Inspection for Testing and Protection of Plant Varieties, Minsk  
(e-mail: belsort@mail.ru)

BRÉSIL / BRAZIL / BRASILIEN / BRASIL

Stefânia PALMA ARAUJO (Ms.), Coordinator, Plant Variety Protection Office, National Plant Variety Protection Service, Serviço Nacional de Proteção de Cultivares (SNPC), Brasília  
(e-mail: stefania.araujo@agro.gov.br)

CANADA / CANADA / KANADA / CANADÁ

Anthony PARKER (Mr.), Commissioner, Plant Breeders' Rights Office, Canadian Food Inspection Agency (CFIA), Ottawa  
(e-mail: anthony.parker@inspection.gc.ca)

Ashley BALCHIN (Ms.), Examiner, Plant Breeders' Rights Office, Canadian Food Inspection Agency (CFIA), Ottawa  
(e-mail: ashley.balchin@inspection.gc.ca)

Renée CLOUTIER (Ms.), Examiner, Plant Breeders' Rights Office, Canadian Food Inspection Agency (CFIA), Ottawa  
(e-mail: Renee.Cloutier@inspection.gc.ca)

CHILI / CHILE / CHILE / CHILE

Manuel Antonio TORO UGALDE (Sr.), Jefe Sección, Registro de Variedades Protegidas, Departamento de Semillas y Plantas, Servicio Agrícola y Ganadero (SAG), Santiago de Chile  
(e-mail: manuel.toro@sag.gob.cl)

CHINE / CHINA / CHINA / CHINA

Yehan CUI (Mr.), Chief Agronomist, Development Center of Science and Technology (DCST), Ministry of Agriculture and Rural Affairs (MARA), Beijing  
(e-mail: cuiyehan@agri.gov.cn)

Yonghai WANG (Mr.), Director-General, PVP Office, National Forestry and Grassland Administration, Beijing  
(e-mail: kjzxpc@cnvp.net)

Guang CHEN (Mr.), Division Director, Division of Plant Variety Protection, Office for Protection of New Varieties of Plant, National Forestry and Grassland Administration of China (NFGA), Beijing  
(e-mail: chenguang@cnvp.net)

Xiujie ZHANG (Ms.), Division Director, Division of DUS Tests, Development Center of Science and Technology (DCST), Beijing  
(e-mail: zhxj7410@sina.com)

Yongqi ZHENG (Mr.), Researcher, National Forestry and Grassland Administration of China (NFGA), Beijing  
(e-mail: zyq8565@126.com)

Boxuan WU (Mr.), Program Administrator, Division I, International Cooperation Department, China National Intellectual Property Administration (CNIPA), Beijing  
(e-mail: wuboxuan@cnipa.gov.cn)

Chan ZHANG (Ms.), Program Officer, International Cooperation Department, National Intellectual Property Administration (CNIPA), Beijing  
(e-mail: zhangchan\_1@cnipa.gov.cn)

COLOMBIE / COLOMBIA / KOLUMBIEN / COLOMBIA

Alfonso Alberto ROSERO (Sr.), Director Técnico de Semillas, Subgerencia de Protección Vegetal, Instituto Colombiano Agropecuario (ICA), Bogotá  
(e-mail: alberto.rosero@ica.gov.co)

Olga Lucía LOZANO FERRO (Sra.), Ministra Consejera, Misión Permanente, Ginebra  
(e-mail: olga.lozanof@cancilleria.gov.co)

CROATIE / CROATIA / KROATIEN / CROACIA

Ivana DUGALIĆ (Ms.), General Manager Advisor for Plant Production, Institute for Seed and Seedlings, Croatian Agency for Agriculture and Food, Osijek  
(e-mail: ivana.dugalic@hapih.hr)

DANEMARK / DENMARK / DÄNEMARK / DINAMARCA

Gerhard DENEKEN (Mr.), Director, Tystofte Foundation, Skaelskoer  
(e-mail: gde@tystofte.dk)

ÉGYPTE / EGYPT / ÄGYPTEN / EGIPTO

Shymaa ABOSHOSHA (Ms.), Agronomist, Plant Variety Protection Office (PVPO), Central Administration for Seed Testing and Certification (CASC), Giza  
(e-mail: sh\_z9@hotmail.com)

ESPAGNE / SPAIN / SPANIEN / ESPAÑA

Nuria URQUÍA FERNÁNDEZ (Sra.), Jefe de Área de Registro de Variedades, Oficina Española de Variedades Vegetales (MPA y OEVV), Ministerio de Agricultura, Pesca y Alimentación (MAPA), Madrid  
(e-mail: nurquia@mapa.es)

ESTONIE / ESTONIA / ESTLAND / ESTONIA

Laima PUUR (Ms.), Counsellor, Organic Farming and Seed Department, Estonian Agricultural and Food Board, Viljandi  
(e-mail: laima.puur@pta.agri.ee)

ÉTATS-UNIS D'AMÉRIQUE / UNITED STATES OF AMERICA / VEREINIGTE STAATEN VON AMERIKA / ESTADOS UNIDOS DE AMÉRICA

Nyeemah GRAZIER (Ms.), Patent Attorney, Office of Policy and International Affairs (OPIA), U.S. Department of Commerce, Alexandria  
(e-mail: nyeemah.grazier@uspto.gov)

Christian HANNON (Mr.), Senior Patent Attorney, Office of Policy and International Affairs (OPIA), U.S. Department of Commerce, Alexandria  
(e-mail: christian.hannon@uspto.gov)

Ruihong GUO (Ms.), Deputy Administrator, AMS, Science & Technology Program, United States Department of Agriculture (USDA), Washington D.C.  
(e-mail: ruihong.guo@usda.gov)

Florence DOVAL (Ms.), Foreign Affairs Officer, Office of Intellectual Property Enforcement, U.S. Department of State, Washington D.C.  
(e-mail: DovalF@state.gov)

Jeffery HAY (Mr.), First Secretary, Permanent Mission, Chambésy  
(e-mail: hayjm@state.gov)

Yasmine Nicole FULENA (Ms.), Intellectual Property Advisor, Permanent Mission, Chambésy  
(e-mail: fulenayn@state.gov)

FINLANDE / FINLAND / FINNLAND / FINLANDIA

Kaarina PAAVILAINEN (Ms.), Chief Specialist, Finnish Food Authority, Loimaa  
(e-mail: kaarina.paavilainen@ruokavirasto.fi)

FRANCE / FRANCE / FRANKREICH / FRANCIA

Clarisse LECLAIR (Ms.), Head of DUS Testing, Groupe d'étude et de contrôle des variétés et des semences (GEVES), Beaucauzé  
(e-mail: clarisse.leclair@geves.fr)

Carole DIRWIMMER (Ms.), Head of the Fruit DUS sector, Groupe d'étude et de contrôle des variétés et des semences (GEVES), Beaucauzé  
(e-mail: carole.dirwimmer@geves.fr)

GHANA / GHANA / GHANA / GHANA

Grace Ama ISSAHAQUE (Ms.), Registrar-General, Ministry of Justice, Accra  
(e-mail: graceissahaque@hotmail.com)

Teddy EDU-YAW (Mr.), Principal IT/IM Officer, Registrar-General's Department, Ministry of Justice, Accra  
(e-mail: eduyaw@gmail.com)

HONGRIE / HUNGARY / UNGARN / HUNGRÍA

Márton PÉCS (Mr.), Agricultural IT Expert, Department of Agricultural Variety Trials, Directorate of Agricultural Genetic Resources, National Food Chain Safety Office (NÉBIH), Budapest  
(e-mail: pecsm@nebih.gov.hu)

ITALIE / ITALY / ITALIEN / ITALIA

Alessandro FARACI (Mr.), Patents Examiner, Italian Patent and Trademark Office, Ministry of Enterprises and Made in Italy, Roma  
(e-mail: alessandro.faraci@mise.gov.it)

JAPON / JAPAN / JAPAN / JAPÓN

Katsuhiro SAKA (Mr.), Councillor, Deputy Director-General, Export and International Affairs Bureau, Intellectual Property Division, Export and International Affairs Bureau, Ministry of Agriculture, Forestry and Fisheries (MAFF), Tokyo  
(e-mail: katsuhiro\_saka470@maff.go.jp)

Minori HAGIWARA (Ms.), Director for International Affairs on Plant Variety Protection, Plant Variety Protection Office, Intellectual Property Division, Export and International Affairs Bureau, Ministry of Agriculture, Forestry and Fisheries (MAFF), Tokyo  
(e-mail: minori\_hagiwara110@maff.go.jp)

Yoshiyuki OHNO (Mr.), Examiner, Intellectual Property Division, Export and International Affairs Bureau, Ministry of Agriculture, Forestry and Fisheries (MAFF), Tokyo  
(e-mail: yoshiyuki\_ono300@maff.go.jp)

Hiroshi AKAI (Mr.), First Secretary, Permanent Mission, Geneva  
(e-mail: hiroshi.akai@mofa.go.jp)

KENYA / KENYA / KENIA / KENYA

Gentrix Nasimiyu JUMA (Ms.), Principal Plant Examiner, Kenya Plant Health Inspectorate Service (KEPHIS), Nairobi  
(e-mail: gjuma@kephis.org)

LETTONIE / LATVIA / LETTLAND / LETONIA

Inga OVSJANNIKA (Ms.), Senior Officer, Division of Seed Certification and Plant Variety Protection, Seed Control Department, State Plant Protection Service, Riga  
(e-mail: inga.ovsjannika@vaad.gov.lv)

MAROC / MOROCCO / MAROKKO / MARRUECOS

Zoubida TAOUSSI (Mme), Responsable de la protection des obtentions végétales, Office National de Sécurité Sanitaire de Produits Alimentaires (ONSSA), Rabat  
(e-mail: ztaoussi67@gmail.com)

MEXIQUE / MEXICO / MEXIKO / MÉXICO

Leobigildo CÓRDOVA TÉLLEZ (Sr.), Director, Servicio Nacional de Inspección y Certificación de Semillas (SNICS), Secretaria de Agricultura y Desarrollo Rural (Agricultura), Ciudad de México  
(e-mail: leobigildo.cordova@agricultura.gob.mx)

Víctor Manuel VÁSQUEZ NAVARRETE (Sr.), Director de área, Servicio Nacional de Inspección y Certificación de Semillas (SNICS), Secretaria de Agricultura y Desarrollo Rural (Agricultura), Ciudad de México  
(e-mail: victor.vasquez@agricultura.gob.mx)

NOUVELLE-ZÉLANDE / NEW ZEALAND / NEUSEELAND / NUEVA ZELANDIA

Christopher James BARNABY (Mr.), PVR Manager / Assistant Commissioner, Plant Variety Rights Office, Intellectual Property Office of New Zealand, Ministry of Economic Development, Christchurch  
(e-mail: Chris.Barnaby@pvr.govt.nz)

Cecilia REQUEJO-JACKMAN (Ms.), Senior Plant Variety Rights Examiner, Plant Variety Rights Office, Intellectual Property Office of New Zealand, Ministry of Economic Development, Christchurch  
(e-mail: Cecilia.R-Jackman@pvr.govt.nz)

ORGANISATION AFRICAINE DE LA PROPRIÉTÉ INTELLECTUELLE (OAPI) / AFRICAN INTELLECTUAL PROPERTY ORGANIZATION (OAPI) / AFRIKANISCHE ORGANISATION FÜR GEISTIGES EIGENTUM (OAPI) / ORGANIZACIÓN AFRICANA DE LA PROPIEDAD INTELECTUAL (OAPI)

Vladimir Ludovic MEZUI ONO (M.), Chef de Projet de Promotion des Obtentions Végétales (PPOV), Organisation africaine de la propriété intellectuelle (OAPI), Yaoundé, Cameroun  
(e-mail: vladimir.mezui@oapi.int)

PAYS-BAS / NETHERLANDS / NIEDERLANDE / PAÍSES BAJOS

Bert SCHOLTE (Mr.), Head Department Variety Testing, Naktuinbouw NL, Roelofarendsveen  
(e-mail: b.scholte@naktuinbouw.nl)

Marian A. VAN LEEUWEN (Ms.), DUS Specialist, Team DUS Vegetable Crops, Variety Testing Department, Naktuinbouw, Roelofarendsveen  
(e-mail: m.v.leeuwen@naktuinbouw.nl)

Marco HOFFMAN (Mr.), DUS Expert, Naktuinbouw, Roelofarendsveen  
(e-mail: m.hoffman@naktuinbouw.nl)

PÉROU / PERU / PERU / PERÚ

Cintha Vanessa MINAYA LESCANO (Sra.), Especialista de Variedades Vegetales y Conocimientos Tradicionales, Instituto Nacional de Defensa de la Competencia y de la Protección de la Propiedad Intelectual (INDECOP), Lima  
(e-mail: cminaya@indecopi.gob.pe)

POLOGNE / POLAND / POLEN / POLONIA

Marcin KRÓL (Mr.), Head, DUS Testing Department, Research Centre for Cultivar Testing (COBORU), Slupia Wielka  
(e-mail: M.Krol@coboru.gov.pl)

RÉPUBLIQUE DE CORÉE / REPUBLIC OF KOREA / REPUBLIK KOREA / REPÚBLICA DE COREA

JongPil KIM (Mr.), Director, Plant Variety Protection Division, Korean Seed and Variety Service (KSVS), Gimcheon City  
(e-mail: kimjp21@korea.kr)

Yong Seok JANG (Mr.), Deputy Director, Plant Variety Protection Division, National Forest Seed Variety Center (NFSV), Chungcheongbukdo  
(e-mail: mushrm@korea.kr)

Chan Woong PARK (Mr.), Deputy Director/Examiner, Plant Variety Protection Division, Korea Seed and Variety Service (KSVS), Jeju-Do  
(e-mail: chwopark@korea.kr)

Tae Hoon KIM (Mr.), Senior Forest Researcher, Examiner, National Forest Seed Variety Center (NFSV), Chungcheongbuk-do  
(e-mail: algae23@korea.kr)

Won-Bum CHO (Mr.), Forest Researcher, Plant Variety Protection Division, National Forest Seed Variety Center (NFSV), Chungcheongbuk-do  
(e-mail: rudis99@korea.kr)

Hwan-Su HWANG (Mr.), Forest Researcher, Plant Variety Protection Division, National Forest Seed Variety Center, Korea Forest Service, Chungcheongbuk-do  
(e-mail: hwansu3368@korea.kr)

Kwanghong LEE (Mr.), Researcher, Korea Seed and Variety Service (KSVS), Gimcheon City  
(e-mail: grin@korea.kr)

Dong-Min KIM (Mr.), Examiner, Korea Seed and Variety Service (KSVS)  
(e-mail: acekdm@korea.kr)

RÉPUBLIQUE DE MOLDOVA / REPUBLIC OF MOLDOVA / REPUBLIK MOLDAU / REPÚBLICA DE MOLDOVA

Mihail MACHIDON (Mr.), Director, State Commission for Crops Variety Testing (SCCVT), Chisinau  
(e-mail: info@cstsp.md)

Ala GUSAN (Ms.), Chief expert, Patents Division, Inventions and Plant Varieties Department, State Agency on Intellectual Property of the Republic of Moldova (AGEPI), Chisinau  
(e-mail: ala.gusan@agepi.gov.md)

RÉPUBLIQUE DOMINICAINE / DOMINICAN REPUBLIC / DOMINIKANISCHE REPUBLIK / REPÚBLICA DOMINICANA

María Ayalivis GARCÍA MEDRANO (Sra.), Directora, Oficina para el Registro de Variedades y Obtenciones Vegetales (OREVADO), Santo Domingo  
(e-mail: mgarcia@orevado.gob.do)

Octavio Augusto BERAS-GOICO JUSTINIANO (Sr.), Encargado del Departamento Legal, Oficina de Registro de Variedades y Obtenciones Vegetales (OREVADO), Santo Domingo  
(e-mail: ota470@gmail.com)

Ivonne Nicole JACOBO TRIGO (Ms.), Counsellor, Permanent Mission Geneva  
(e-mail: ijacobo@mirex.gob.do)

RÉPUBLIQUE TCHÈQUE / CZECH REPUBLIC / TSCHECHISCHE REPUBLIK / REPÚBLICA CHECA

Andrea POVOLNÁ (Ms.), Head of DUS Department, National Plant Variety Office, Central Institute for Supervising and Testing in Agriculture (ÚKZÚZ), Brno  
(e-mail: andrea.povolna@ukzuz.cz)

Pavla BÍMOVÁ (Ms.), General affairs of DUS testing, National Plant Variety Office, Central Institute for Supervising and Testing in Agriculture (ÚKZÚZ), Brno  
(e-mail: pavla.bimova@ukzuz.cz)

RÉPUBLIQUE-UNIE DE TANZANIE / UNITED REPUBLIC OF TANZANIA /  
VEREINIGTE REPUBLIK TANSANIA / REPÚBLICA UNIDA DE TANZANÍA

Patrick NGWEDIAGI (Mr.), Director General, Tanzania Official Seed Certification Institute (TOSCI), Morogoro  
(e-mail: dg@tosci.go.tz)

Twalib Mustafa NJOHOLE (Mr.), Registrar of Plant Breeders' Rights, Plant Breeders Rights' Office, Ministry of Agriculture (MoA), Dodoma  
(e-mail: twalib.njohole@kilimo.go.tz)

ROUMANIE / ROMANIA / RUMĂNIEN / RUMANIA

Teodor Dan ENESCU (Mr.), Counsellor, State Institute for Variety Testing and Registration (ISTIS), Bucarest  
(e-mail: enescu\_teodor@istis.ro)

ROYAUME-UNI / UNITED KINGDOM / VEREINIGTES KÖNIGREICH / REINO UNIDO

Kat DEEKS (Ms.), Plant Variety and seeds policy Team Leader, Department for Environment, Food and Rural Affairs (Defra), Cambridge  
(e-mail: katherine.deeks@defra.gov.uk)

Michael BROWN (Mr.), Head of Plant Variety and Seeds (PVS), Animal and Plant Health Agency (APHA), Cambridge  
(e-mail: Michael.Brown@apha.gov.uk)

Margaret WALLACE (Ms.), Head of Agricultural Crop Characterisation, NIAB, Cambridge  
(e-mail: margaret.wallace@niab.com)

Sigurd RAMANS-HARBOROUGH (Mr.), Manager of UK Variety Listing and PBR, Plant Varieties and Seeds, Animal and Plant Health Agency (APHA), Department for Environment, Food and Rural Affairs (DEFRA), Cambridge  
(e-mail: Sigurd.Ramans-Harborough@defra.gov.uk)

Hilary PAPWORTH (Ms.), Senior Technical Manager, NIAB, Cambridge  
(e-mail: hilary.papworth@niab.com)

SLOVAQUIE / SLOVAKIA / SLOWAKEI / ESLOVAQUIA

Lubomir BASTA (Mr.), Head of DUS testing, Department of Variety Testing, Central Control and Testing Institute in Agriculture (ÚKSÚP), Bratislava  
(e-mail: lubomir.basta@uksup.sk)

Ján GALBÁVY (Mr.), First Secretary, Permanent Mission, Grand-Saconnex  
(e-mail: Jan.Galbavy@mzv.sk)

SUISSE / SWITZERLAND / SCHWEIZ / SUIZA

Manuela BRAND (Ms.), Plant Variety Rights Office, Plant Health and Varieties, Office fédéral de l'agriculture (OFAG), Bern  
(e-mail: manuela.brand@blw.admin.ch)



TUNISIE / TUNISIA / TUNESIEN / TÚNEZ

Omar BRAHMI (M.), Ingénieur en chef, Chef service Évaluation, Homologation et Protection des Obtentions Végétales, Direction Générale de la Santé Végétale et de Contrôle des Intrants Agricoles, Ministère de l'Agriculture, des Ressources Hydrauliques et de la Pêche, Tunis  
(e-mail: bo.dgpcqpa@iresa.agrinet.tn)

TÜRKIYE / TÜRKIYE / TÜRKİ / TÜRKIYE

Ömer Faruk ATAY (Mr.), Designated Person Of Türkiye To UPOV, General Directorate of Plant Production, Ankara  
(e-mail: Omerfaruk.atay@tarimorman.gov.tr)

Mehmet ÇAKMAK (Mr.), PBR Expert, Senior Agricultural Engineer, Msc., Seed Department, General Directorate of Plant Production, Ministry of Agriculture and Forestry, Ankara  
(e-mail: mehmet.cakmak@tarimorman.gov.tr)

Nilufer YILDIRIM SOZMEN (Mr.), PBR Expert, Senior Agricultural Engineer, Ankara  
(e-mail: nilufer.sozmen@tarimorman.gov.tr)

Aysen ALAY VURAL (Ms.), Research Programme Coordinator, General Directorate Of Agricultural Research and Policy, Ankara  
(e-mail: aysen.alayvural@tarimorman.gov.tr)

Evrar DOĞAN (Ms.), Research Programme Coordinator/Agricultural Engineer, General Directorate Of Agricultural Research and Policy, Ankara  
(e-mail: evran.dogan@tarimorman.gov.tr)

Sinem GULER (Ms.), Research Programme Coordinator, General Directorate Of Agricultural Research and Policy, Ankara  
(e-mail: sinem.guler@tarimorman.gov.tr)

Cagri OVAYURT (Ms.), Agricultural Engineer, General Directorate of Agricultural Research and Policies, Ankara  
(e-mail: cagri.ovayurt@tarimorman.gov.tr)

UKRAINE / UKRAINE / UKRAINE / UCRANIA

Nataliia HOLICHENKO (Ms.), Head, Department of International Cooperation and Support of the UPOV Council Representative, Ukrainian Institute for Plant Variety Examination, Kyiv  
(e-mail: nataliia.holichenko@gmail.com)

UNION EUROPÉENNE / EUROPEAN UNION / EUROPÄISCHE UNION / UNIÓN EUROPEA

Nuria URQUÍA FERNÁNDEZ (Sra.), Jefe de Área de Registro de Variedades, Oficina Española de Variedades Vegetales (MPA y OEVV), Ministerio de Agricultura, Pesca y Alimentación (MAPA), Madrid  
(e-mail: nurquia@mapa.es)

Päivi MANNERKORPI (Ms.), Team Leader - Plant Reproductive Material, Unit G1 Plant Health, Directorate General for Health and Food Safety (DG SANTE), European Commission, Brussels  
(e-mail: paivi.mannerkorpi@ec.europa.eu)

Dirk THEOBALD (Mr.), Senior Adviser, Community Plant Variety Office (CPVO), Angers  
(e-mail: theobald@cpvo.europa.eu)

Jean MAISON (Mr.), Deputy Head, Technical Unit, Community Plant Variety Office (CPVO), Angers (e-mail: maison@cpvo.europa.eu)

URUGUAY / URUGUAY / URUGUAY

Daniel BAYCE MUÑOZ (Sr.), Director Ejecutivo, Instituto Nacional de Semillas (INASE), Canelones  
(e-mail: dbayce@inase.uy)

II. OBSERVATEURS / OBSERVERS / BEOBACHTER / OBSERVADORES

ARABIE SAOUDITE / SAUDI ARABIA / SAUDI-ARABIEN / ARABIA SAUDITA

Ali NAMAZI (Mr.), Head of Plant Varieties, Saudi Authority for Intellectual Property (SAIP), Riyadh  
(e-mail: anamazi@saip.gov.sa)

Fahd ALAIJAN (Mr.), Patent Support Expert, Saudi Authority for Intellectual Property (SAIP), Riyadh  
(e-mail: fajlan@saip.gov.sa)

KAZAKHSTAN / KAZAKHSTAN / KASACHSTAN / KAZAJSTÁN

Talgat AZHGALIYEV (Mr.), Chairman, State Commission for Variety Testing of Agricultural Crops (RSI), Ministry of Agriculture, Nur-Sultan  
(e-mail: office@sortcom.kz)

Ademi GABDOLA (Ms.), Head of patentability examination department, State Commission for variety testing of agricultural crops, Nur-Sultan  
(e-mail: for\_work\_15@mail.ru)

MALAISIE / MALAYSIA / MALAYSIA / MALASIA

Foong Lian SOO (Ms.), Principal Assistant Director, Crop Quality Control Division, Plant Variety Protection Section, Department of Agriculture (DOA), Putrajaya  
(e-mail: lian@doa.gov.my)

THAÏLANDE / THAILAND / THAILAND / TAILANDIA

Jaruwan SUKKHAROM (Ms.), Minister Counsellor, Permanent Mission of Thailand to the WTO, Geneva  
(e-mail: jaruwan@thaiwto.com)

III. ORGANISATIONS / ORGANIZATIONS / ORGANISATIONEN / ORGANIZACIONES

AFRICAN SEED TRADE ASSOCIATION (AFSTA)

Catherine LANGAT (Ms.), Technical Manager, African Seed Trade Association (AFSTA), Nairobi, Kenya  
(e-mail: catherine@afsta.org)

CROPLIFE INTERNATIONAL

Marcel BRUINS (Mr.), Consultant, CropLife International, Bruxelles, Belgium  
(e-mail: marcel@bruinsseedconsultancy.com)

INTERNATIONAL SEED FEDERATION (ISF)

Khaoula BELHAJ-FRAGNIERE (Ms.), Regulatory Affairs Manager, Nyon, Switzerland  
(e-mail: k.belhajfragniere@worldseed.org)

Astrid M. SCHENKEVELD (Ms.), Specialist, Plant Breeder's Rights & Variety Registration | Legal, Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier, Netherlands  
(e-mail: a.schenkeveld@rijkszwaan.nl)

Kim MAESSEN-VAN BUGGENUM (Ms.), Plant Variety Protection Officer, BASF Vegetable Seeds, Nunhem, Netherlands  
(e-mail: Kim.vanbuggenum@vegetableseeds.basf.com)

ORGANISATION RÉGIONALE AFRICAINE DE LA PROPRIÉTÉ INTELLECTUELLE (ARIPO) /  
AFRICAN REGIONAL INTELLECTUAL PROPERTY ORGANIZATION (ARIPO) /  
AFRIKANISCHE REGIONALORGANISATION FÜR GEWERBLICHES EIGENTUM (ARIPO)  
ORGANIZACIÓN REGIONAL AFRICANA DE LA PROPIEDAD INTELECTUAL (ARIPO)

Flora Kokwihyukya MPANJU (Ms.), Intellectual Property Director, African Regional Intellectual Property Organization (ARIPO), Harare, Zimbabwe  
(e-mail: fmpanju@aripo.org)

COMMUNAUTÉ INTERNATIONALE DES OBTENTEURS DE PLANTES HORTICOLES À  
REPRODUCTION ASEXUÉE (CIOPORA) / INTERNATIONAL COMMUNITY OF BREEDERS OF  
ASEXUALLY REPRODUCED HORTICULTURAL PLANTS (CIOPORA) / INTERNATIONALE  
GEMEINSCHAFT DER ZÜCHTER VEGETATIV VERMEHRBARER GARTENBAULICHER PFLANZEN  
(CIOPORA) / COMUNIDAD INTERNACIONAL DE OBTENTORES DE PLANTAS HORTÍCOLAS DE  
REPRODUCCIÓN ASEXUADA (CIOPORA)

Paulo PERALTA (Mr.), Technical Expert, International Community of Breeders of Asexually Reproduced Horticultural Plants (CIOPORA), Hamburg, Germany  
(e-mail: paulo.peralta@ciopora.org)

EUROSEEDS

Claudius MARONDEDZE (Mr.), Technical Manager Plant Health and Seed Trade, Euroseeds, Brussels, Belgium  
(e-mail: claudiusmarondedze@euroseeds.eu)

SEED ASSOCIATION OF THE AMERICAS (SAA)

Diego A. RISSO (Sr.), Director Ejecutivo, Seed Association of the Americas (SAA), Montevideo, Uruguay  
(e-mail: drisso@saaseed.org)

Alfredo PASEYRO (Sr.), Director Ejecutivo, ASA Asociación Semilleros Argentinos, Caba, Argentina  
(e-mail: alfredo.paseyro@asa.org.ar)

IV. BUREAU / OFFICER / VORSITZ / OFICINA

Beate RÜCKER (Ms.), Chair

Nuria URQUÍA FERNÁNDEZ (Ms.), Vice-Chair

V. BUREAU DE L'UPOV / OFFICE OF UPOV / BÜRO DER UPOV / OFICINA DE LA UPOV

Daren TANG (Mr.), Secretary-General

Yolanda HUERTA (Ms.), Vice Secretary-General

Martin EKVAD (Mr.), Director of Legal Affairs

Leontino TAVEIRA (Mr.), Director of Global Development and Technical Affairs

Hend MADHOUR (Ms.), IT Officer

Manabu SUZUKI (Mr.), Technical/Regional Officer (Asia)

Ariane BESSE (Ms.), Administrative Assistant

Romy OERTEL (Ms.), Secretary I

Kees VAN ETTEKOVEN (Mr.), Technical Expert

[Annex II follows]

## AMENDMENTS TO THE DRAFT TEST GUIDELINES

General

Several documents	to put CMS in full the first time it appears in an explanation to read “Cytoplasmic male sterility (CMS)”
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Test Guidelines adopted at the fifty-ninth session of the Technical Committee*Partial revisions*

<b>TC/59/9</b>	<b>Partial revision of the Test Guidelines for Broccoli</b>
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The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TC/59/9 and made the recommendations presented in the table below.

The TC-EDC agreed that the partial revision of the Test Guidelines for Broccoli be submitted to the TC for adoption.

Ad. 24	paragraph on field trial to read “Check for the presence of pollen on the stamens: if pollen is present on the stamens; then, male sterility is absent; if pollen is absent on the stamens; then, male sterility is present.”
Ad. 24	first paragraph on DNA marker test to read “... If the CMS marker is present, ...”
Ad. 24	second paragraph on DNA marker test to read “In cases where the DNA marker test result...”

<b>TC/59/10</b>	<b>Partial revision of the Test Guidelines for Brussels Sprouts</b>
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The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TC/59/10 and made the recommendations presented in the table below.

The TC-EDC agreed that the partial revision of the Test Guidelines for Brussels Sprouts be submitted to the TC for adoption.

Ad. 21	paragraph on field trial to read “Check for the presence of pollen on the stamens: if pollen is present on the stamens; then, male sterility is absent; if pollen is absent on the stamens; then, male sterility is present.”
Ad. 21	first paragraph on DNA marker test to read “... If the CMS marker is present, ...”
Ad. 21	second paragraph on DNA marker test to read “In cases where the DNA marker test result...”

<b>TC/59/11</b>	<b>Partial revision of the Test Guidelines for Cabbage</b>
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The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TC/59/11 and made the recommendations presented in the table below.

The TC-EDC agreed that the partial revision of the Test Guidelines for Cabbage be submitted to the TC for adoption.

Ad. 35	paragraph on field trial to read “Check for the presence of pollen on the stamens: if pollen is present on the stamens; then, male sterility is absent; if pollen is absent on the stamens; then, male sterility is present.”
Ad. 35	first paragraph on DNA marker test to read “... If the CMS marker is present, ...”
Ad. 35	second paragraph on DNA marker test to read “In cases where the DNA marker test result...”

<b>TC/59/12</b>	<b>Partial revision of the Test Guidelines for Carrot</b>
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The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TC/59/12 and agreed that the partial revision of the Test Guidelines for Carrot be submitted to the TC for adoption.

<b>TC/59/13</b>	<b>Partial revision of the Test Guidelines for Cauliflower</b>
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The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TC/59/13 and made the recommendations presented in the table below.

The TC-EDC agreed that the partial revision of the Test Guidelines for Cauliflower be submitted to the TC for adoption.

Ad. 25	field trial, first sentence: to replace “de” with “the”
Ad. 25	DNA marker test, last sentence of first paragraph to read “The markers corresponding with the functional or nonfunctional gene are based on 3 SNP markers located at position ~1296bp in the gene (Han et al. 2019).”
Ad. 25	DNA marker test, second paragraph to read “The marker test can be performed in multiplex with the marker test for male sterility (Ad. 28).”
Ad. 25, 8.	White (1) to read “...the variety has white flowers. Both probes are present (heterozygous), the variety has white flowers.”
Ad. 25, 8.	Yellow (2), last paragraph to read “In cases where the DNA marker test...”
Ad. 25, Annex	sentence below table “Specific aspects” to be deleted
Ad. 28	DNA marker test and/or field trial, third paragraph: “In cases where only a DNA marker test is allowed (state 1 and state 3 seed-propagated varieties) and the CMS marker appears to be absent... In cases where the DNA marker test does not...”
Ad. 28	last sentence to read “The marker test can be performed in multiplex with the marker test for flower color (Ad. 25).”

<b>TC/59/14</b>	<b>Partial revision of the Test Guidelines for Cornsalad</b>
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The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TC/59/14 and agreed that the partial revision of the Test Guidelines for Cornsalad be submitted to the TC for adoption.

<b>TC/59/15</b>	<b>Partial revision of the Test Guidelines for Cucumber, Gherkin</b>
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The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TC/59/15 and agreed that the partial revision of the Test Guidelines for Cucumber, Gherkin be submitted to the TC for adoption.

<b>TC/59/16</b>	<b>Partial revision of the Test Guidelines for Industrial Chicory</b>
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The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TC/59/16 and made the recommendations presented in the table below.

The TC-EDC agreed there were editorial clarifications required from the leading expert on the partial revision of the Test Guidelines for Industrial Chicory (indicated below by “#”) and agreed to reconsider the draft Test Guidelines at its meeting proposed to be held in January 2024.

Char. 1	to be indicated MS/MG/VG
#Ad. 1	- to read “Observations should be made by standard cytological methods such as ...” - to add explanation for polyploid (see e.g. revision of TG Fodder Beet (TG/150/4(proj.1))

**TC/59/17 Partial revision of the Test Guidelines for Kohlrabi**

The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TC/59/17 and made the recommendations presented in the table below.

The TC-EDC agreed that the partial revision of the Test Guidelines for Kohlrabi be submitted to the TC for adoption.

Ad. 24	paragraph on field trial to read "Check for the presence of pollen on the stamens: if pollen is present on the stamens; then, male sterility is absent; if pollen is absent on the stamens; then, male sterility is present."
Ad. 24	first paragraph on DNA marker test to read "... If the CMS marker is present, ..."
Ad. 24	second paragraph on DNA marker test to read "In cases where the DNA marker test result..."

**TC/59/19 Partial revision of the Test Guidelines for Maize**

The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TC/59/19 and made the recommendations presented in the table below.

The TC-EDC agreed that the partial revision of the Test Guidelines for Maize be submitted to the TC for adoption.

5.13 (32)	<u>Only varieties with ear type of grain: sweet or waxy:</u> Ear: number of colors (delete extra space here) of grains
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**TC/59/21 Partial revision of the Test Guidelines for Radish; Black Radish**

The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TC/59/21 and made the recommendations presented in the table below.

The TC-EDC agreed that the partial revision of the Test Guidelines for Radish; Black Radish be submitted to the TC for adoption.

Char. 1	- to be indicated MS/MG/VG - to delete "C"
Ad. 1	To read: Observations should be made by standard cytological methods such as ..."

**TC/59/23 Partial revision of the Test Guidelines for Swede, Rutabaga**

The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TC/59/23 and made the recommendations presented in the table below.

The TC-EDC agreed that the partial revision of the Test Guidelines for Swede, Rutabaga be submitted to the TC for adoption.

Char. 23	to add type of expression and similar footnotes as in TG Kohlrabi (as type of expression and method of observation not yet included in the TG; based on old template)
Char. 23	to read "Male sterility"
Ad. 23	paragraph on field trial to read "Observations should be made..."
Ad. 23	first paragraph on DNA marker test to read "... If the CMS marker is present, ..."
Ad. 23	second paragraph on DNA marker test to read "In cases where the DNA marker test result..."

**TC/59/25 Partial revision of the Test Guidelines for Watermelon**

The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TC/59/25 and made the recommendations presented in the table below.

The TC-EDC agreed that the partial revision of the Test Guidelines for Watermelon be submitted to the TC for adoption.

Char. 1	to be indicate MS/MG/VG
Ad. 1	- to read "Observations should be made by standard cytological methods such as ..." and delete "by" from a. to c.

**TC/59/26 Partial revision of the Test Guidelines for Oncidium**

The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TC/59/26 and agreed that the partial revision of the Test Guidelines for Oncidium be submitted to the TC for adoption.

**TC/59/27 Partial revision of the Test Guidelines for Tomato Rootstocks**

The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TC/59/27 and agreed that the partial revision of the Test Guidelines for Tomato Rootstocks be submitted to the TC for adoption.

*New Test Guidelines*

Oxypetalum ( <i>Oxypetalum coeruleum</i> (D. Don) Decne.)	TG/OXYPE_CAE(proj.3)	Mr. Naoki Eguchi (JP)	TWO	*
	No. of chars.: 28 No. of (*) chars.: 11	(Interested experts: NL, QZ, CIOFORA)		

The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TG/OXYPE\_CAE(proj.3) and made the recommendations presented in the following table.

The TC-EDC agreed that the draft Test Guidelines for Oxypetalum be submitted to the TC for adoption.

General	to spell "seed-propagated varieties" (with hyphen) throughout the TG
4.2.3	to delete "self-pollinated"
Char. 10	to delete "density of"
8.1 (a)	to read "Observations should be made when about 50 % of flowers on the first inflorescence are open."
8.1 (b)	to read "Observations should be made at..."
8.1 (c)	to delete "typical"
8.1 (d)	to read "Observations should be made on the longest branch when the flowers on the fourth node from the bottom of the inflorescence are fully open."
8.1 (e)	to read "Observations should be made on fully open flowers."
8.1 (f)	to read "For varieties with semi-double or double flowers, observations should be made on the outermost corolla lobes."

Revisions

Apple ( <i>Malus domestica</i> (Suckow) Borkh.)	TG/14/10(proj.8)	Mr. Erik Schulte (DE)	TWF	*
	No. of chars.: 51 No. of (*) chars.: 34	(Interested experts: AU, BR, CA, CL, CN, CZ, FR, HU, JP, KR, MX, NL, NZ, PL, QZ, RU, ZA, CIOPORA)		

The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TG/14/10(proj.8) and made the recommendations presented in the following table.

The TC-EDC agreed that the draft Test Guidelines for Apple be submitted to the TC for adoption.

2.3	to read “5 trees, budsticks or shoots for grafting” and “10 trees, budsticks or shoots for grafting”
4.1.4	to delete second paragraph
Char. 1	growth stage to be indicated as 00 or 39
Char. 2-5	growth stage to be indicated as 00
Char. 13	State 3 does not match the wording in Ad. 13. One says “reflexed” and the other is “raised”.
Char. 49, 50, 51	to delete growth stages (covered by (+))
8.1 (a)	to read “Observations should be made after at least one satisfactory crop of fruit.”
8.1.(b)	to read “Observations should be made in the middle third of lateral dormant shoots in winter, after at least one satisfactory crop of fruit.”
8.1 (c)	to delete “(growth stage 39)”
Ad. 1	first sentence to read “..., after at least one satisfactory crop of fruit.”
Ad. 3	to delete sentence
Ad. 4	to read “Observations should be made...”
Ad. 5	to read “Observations should be made by counting in a defined area [e.g. an area of 1 cm <sup>2</sup> ]...” (as in Ad. 38)
Ad. 13	to adjust states according to the wording in the table of characteristics
Ad. 26	Update the “conical” states to read “conic” which would match the states in the characteristic.
Ad. 35	to read “The russet is a dull brown rough finish on the skin.”
Ad. 45	The main color is the color with the largest surface area. The secondary color is the color with the second largest surface area. In cases where the areas of the main and secondary color are too similar to reliably decide which color has the largest area, the darker color is considered to be the main color.
Ad. 46	to read “See Ad. 45”
Ad. 47	to read “See Ad. 45”
Ad. 50	to replace “degression” with “regression”
Ad 51	Remove “of” in the sentence “... has reached its optimum of flavour and aroma...”
p. 8.3	- to have illustrations below table of growth stages, using only illustrations for stages used in the TG (as in the draft of TG Sweet Cherry) - to add missing stage 55 to the table
8.4	- to add “Tenroy” and “synonym Royal Gala” - to be moved to chapter 6.4



Oilseed Rape ( <i>Brassica napus</i> L. ssp. <i>napus</i> )	TG/36/7(proj.5)	Ms. Margaret Wallace (GB)	TWA	*
	No. of chars.: 24 No. of (*) chars.: 9	(Interested experts: AR, AU, BR, CA, CN, CZ, DE, DK, ES, FI, FR, IT, JP, KR, NZ, PL, QZ, SK, UY, CLI, Euroseeds, ISF)		

The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TG/36/7(proj.5) and made the recommendations presented in the following table.

The TC-EDC agreed that the draft Test Guidelines for Oilseed Rape be submitted to the TC for adoption.

Alternative names	to add French name "Canola"
Char. 13	to remove hyphen in state 4 to read "orange yellow"
Char. 11	to read "Leaf: incisions of margin"
Ad. 11	to add missing sentence as in proj.4 to read "Observations should be made on the upper third of the leaf."
Ad. 18	- to read: "To measure the length, all side branches should be raised to a vertical orientation..." - to check illustration (not visible)
8.1 (c)	to replace "midpart" with "middle"
TQ 7.3.3	to spell out GMS and CMS ("Genetic Male Sterility" and "Cytoplasmic Male Sterility")

Raspberry ( <i>Rubus idaeus</i> L.; <i>Rubus occidentalis</i> L.)	TG/43/8(proj.4)	Mr. Erik Schulte (DE)	TWF	*
	No. of chars.: 41 No. of (*) chars.: 23	(Interested experts: AU, CA, CN, CZ, HU, IT, JP, KE, KR, MX, NZ, PL, QZ, CIOPORA)		

The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TG/43/8(proj.4) and made the recommendations presented in the following table.

The TC-EDC agreed that the draft Test Guidelines for Raspberry be submitted to the TC for adoption.

Botanical names	Correct FR to Framboisier noir and Framboisier de Virginie
1.	to delete "and their hybrids" and add UPOV code for the hybrids (coherence with TQ 1)
2.3	to delete "." after 10 plants
3.3.2	to be deleted
Char. 2	to delete (a)
Char. 3	to move "during rapid growth" to chapter 8.2
Chars. 10 to 14	to replace "spines" with "prickles"
Char. 22, 23	to read "... laterals"
Char. 35	state 4 to read "reddish orange"
8.1 (a)	to read "Observations should be made on fully developed current season's cane."
8.1 (b)	to be deleted (covered by (a)) and add (a) to characteristics indicated as (b) (characteristics 5 to 9)
8.1 (c)	to read "Observations should be made in the middle third on fully developed current season's canes."
8.1 (d)	to read "Observations should be made on fully developed leaves from the middle third of current season's canes."
8.1 (f)	to read "... on fruits picked ..."
Ad. 2	to read "If the bark peels away from the canes, an unpeeled bark area should be observed."
Ad. 4, 21	to read "Observations should be made..."

Ad. 5	Correct to “vegetative period” (throughout the TG)
Ad. 13	to add the word “Base” below the arrow
Ad. 21	to read “The folding along / between lateral veins should be observed.”
Ad. 27	to read “Observations should be made with petals pressed into the horizontal position.”
Ad. 38	to read “Time of beginning of flowering is reached when 10% of the flowers are open.”
Ad. 40	to read “Time of beginning of fruit ripening is reached when the fruit can easily be removed from the torus.”
9.	2 <sup>nd</sup> reference “Monographie CTIFL”

Kale	TG/90/7(proj.6)	Mr. Toshiya Kobayashi (JP)	TWV	*
	No. of chars.: 28 No. of (*) chars.: 9	(Interested experts: AU, CN, DE, ES, FR, GB, IT, JP, KE, KR, NL, QZ, CLI, Euroseeds, ISF)		

The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TG/90/7(proj.6) and made the recommendations presented in the following table.

The TC-EDC agreed that the draft Test Guidelines for Kale be submitted to the TC for adoption.

General	to spell “seed-propagated varieties” (with hyphen) throughout the TG
1.2	to replace “inter-variant” with “interspecific”
2.3	to read “30 young plants” for vegetatively propagated varieties
Char. 22	to read “Leaf blade: twisting”
8.1 (c)	to read “The leaf blade does not....”
8.2	to lighten or remove background in illustrations and harmonize amongst all illustrations. (Ad. 1, 14, 18, 20, 21, 23, 25)
Ad. 3	to read “Observations of the growing point position should be made in relation to the top of the plant.”
Ad. 7	to read “Observations should be made after bolting but before flowering. It should be assessed as number of branching nodes along the main stem.”
Ad. 13	2. to read “Their length is most equivalent ...”
Ad. 17, 18	to read “Observations should be made on the upper third of the unfolded leaf blade.”
Ad. 28	paragraph on field trial to read “Check for the presence of pollen on the stamens: if pollen is present on the stamens; then, male sterility is absent; if pollen is absent on the stamens; then, male sterility is present.”
Ad. 28	first paragraph on DNA marker test to read “If the CMS marker is absent,...” and “... If the CMS marker is present, ...”
Ad. 28	second paragraph on DNA marker test to read “In cases where the DNA marker test result...”

Safflower ( <i>Carthamus tinctorius</i> L.)	TG/134/4(proj.2)	Ms. Beate Rücker (DE)	TWA	*
	No. of chars.: 21 No. of (*) chars.: 11	(Interested experts: CZ, ES, FR, JP, QZ, Euroseeds)		

The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TG/134/4(proj.2) and made the recommendations presented in the following table.

The TC-EDC agreed that the draft Test Guidelines for Safflower be submitted to the TC for adoption.

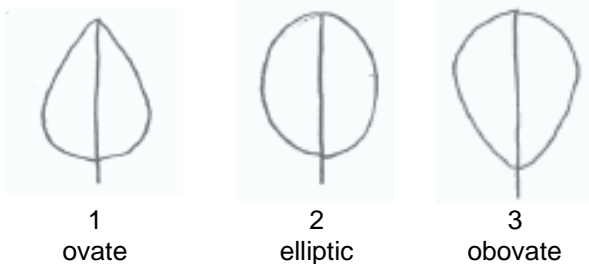
3.	to add ASW 4 (a)
Char. 5	to read “First leaf: incisions”
Char. 16	to read “Leaf: incisions”
8.1 (a)	to add “of the main stem” at the end of the sentence
8.1 (b)	to read “Observations should be made on inner bracts.”

Ad 6.	to read "...have at least one open flower head."
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Weigela ( <i>Weigela</i> Thunb.)	TG/148/3(proj.4)	Ms. Stéphanie Christien (FR)	TWO	*
	No. of chars.: 44	(Interested experts: CA, DE,		
	No. of (*) chars.: 21	GB, HU, QZ, CIOPORA)		

The TC-EDC, at its meeting on October 17, 18 and 23, 2023, considered document TG/148/3(proj.4) and made the recommendations presented in the following table.

The TC-EDC agreed there were editorial clarifications required from the leading expert on the draft Test Guidelines for *Weigela* (indicated below by "#") and agreed to reconsider the draft Test Guidelines at its meeting proposed to be held in January and March 2024.

2.2	to read "The material is to be supplied in the form of two-year-old plants on their own roots."
Char. 6	to delete "slightly" from state 2
Char. 10	to add illustrations from TGP/14: 
#Char. 28	to read "Plant: different colored flowers" (and update in subsequent chars in underlined part)
Chars. 29 to 39	to delete "presence of"
#Char. 34 to 39	- to replace "predominantly present" with "most frequent" - to replace "second predominantly" with "second most frequent" - to replace "third predominantly" with "third most frequent"
Char. 40	to add hyphen to "semi-erect"
Ad. 8 and 9	To be combined.
Ad. 18	to delete column for state 4
Ad. 28	to add "Absent: all flowers have the same color." Present: different colored flowers occur on the same plant"
Ad. 42	The text from Ad. 41 has been duplicated into Ad. 42 and needs deleting
#TQ 5.4, 5.16	to check whether to delete "other (please specify)" (usually only applicable for RHS characteristics)

#### Test Guidelines adopted by correspondence

#### *Revisions*

#### **TG/168/4(PROJ.4) *Statice***

The TC-EDC, at its meeting held in Geneva on March 21, 2023, considered document TG/168/4(PROJ.4) and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the draft Test Guidelines for *Statice* be circulated to the TC for adoption by correspondence.

Cover page	to add "Limonium" as French name (it is already written in the French title)
Char. 2	- to add (b) - to be moved after char. 12
Char. 3	to add VG

Char. 4	to add VG
Char. 8	to read "Leaf: density of hairs on upper side"
Char. 9	to read "Leaf: density of hairs on margin"
Char. 11	to read "Leaf: lobing"
Char. 13	- to read "Peduncle: length" - to add VG
Char. 14	- to read "Peduncle: thickness" - to add VG
Char. 15	- to read "Peduncle: density of hairs" - to reduce scale to 5 notes (to confirm states of example varieties with Leading Expert)
Char. 16	to read "Peduncle width of wing"
Char. 17	to read "Peduncle: undulation of margin of wing"
Char. 20	- to read "Inflorescence: degree of ramification" - to correct spelling of example variety for note 3 "Zastosella" - to add the following illustrations



3  
weak



5  
medium



7  
strong

Char. 23	to add VG
Char. 24	- to add VG - to reduce scale to 5 notes (to confirm states of example varieties with Leading Expert)
Char. 27	to read "Calyx: color of ribs"
Char. 29	- state 1 to read "similar or shorter" - state 6 "not clearly visible" to become state 1
Char. 30	to add VG
Char. 32	to read "Corolla: incision of the apex of lobes"
8.1 (a), (b)	to read "Observations should be made ..."
8.1 (a)	to read "Observations should be made on fully developed leaves from the middle third of the rosette."
8.1 (b)	to read "Observations should be made on the plant at its maximum height (the first inflorescences often are shorter than the later ones)".
Ad. 1	to read "Observations should be made from the base of the plant to the top of the inflorescence. The tallest stems should be ignored and the average stem height observed. Note: the first inflorescence can be shorter than the inflorescences formed later."
Ad. 4	- to read "Observations should be made at the broadest part of the leaf, at a right angle to the mid-vein." - to remove illustration repeated from Ad. 3 with "See Ad. 3"
Ad. 14	to delete ", using a caliper"
Ad. 16	to read "Observations should be made in the middle third of the peduncle."

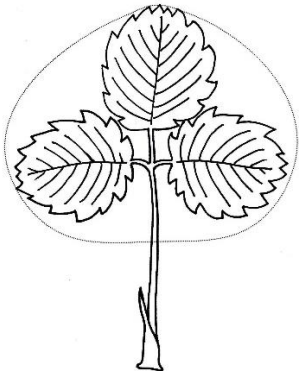

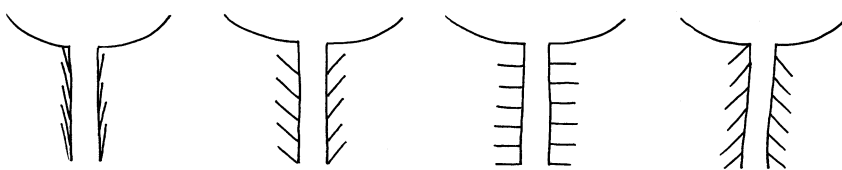
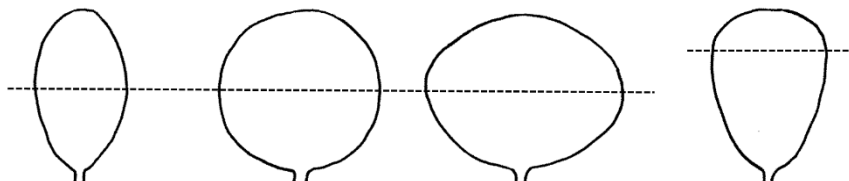
Ad. 18	to read "Observations should be made on the first branch from the base of the largest stipule to its tip."
Ad. 19	- Type II: to correct spelling of "branchlets" - Type IV: to read: "... short to long peduncle."
Ad. 23	to delete wording and add illustration from Ad. 24
Ad. 24	to delete wording and illustration and add "See Ad 23"
Ad. 28	to try to improve quality of photo for state 2
9.	to review format (see document TGP/7) and add countries (as per TWO report)

<b>TC-EDC/Mar23/3 Matters to be resolved concerning Test Guidelines put forward for adoption by the Technical Committee: Strawberry</b>
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The TC-EDC, at its meeting held in Geneva on March 21, 2023, considered documents TG/22/11(PROJ.5) and TC-EDC/Mar23/3 and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the draft Test Guidelines for Strawberry be circulated to the TC for adoption by correspondence.

Table of Chars.	to correct names of example varieties as follows: Aramella      Aromella Rinia          Rina CF 4402      CIR 104
Char. 2	to reduce scale to 5 notes (see illustration for state 3 in Ad. 2 looks very sparse)
Char. 5	state 2 to read "very few to few"
Char. 11	state 3 to read "slightly longer than broad"
Char. 14	to read "...incisions of margin"
Char. 15	to read "Leaf: profile in cross-section"
Char. 18	to be indicated as (a) (delete (b))
Chars. 19 to 25	to be indicated as (b) (delete (c))
Char. 26	- to read "Fruit: length in relation to width" - to have states from "very short" to "very long"
Char. 28	state 2 to read "conic" (see TGP/14)
Char. 29	- to read "Fruit: position of maximum width" - to add (d)
Char. 30	to reverse order so that acute is the first state (see TGP/14)
Char. 35	to add (d)
8.1 (a)	to read "Observations should be made shortly before ..."
8.1 (b)	to read "Observations should be made at full flower. Observations on the flower ..."
8.1 (c)	to read "Observations should be made after the end of bearing of the non-remontant varieties."
#8.1 (d)	to check whether to read "Observations should be made at picking ripeness, excluding the terminal fruits of the infructescences." ("one-year-old plants" are inconsistent with 3.1.2; to clarify how to observe fruits in the second year from a single planting) <i>Leading Expert: agreed with proposed new wording</i>

Ad. 7	to replace current illustration with the following on: 
Ad.14	to replace current illustration with improved one below: 
Ad. 16	to move illustration in same direction as in Ad. 7
Ad. 17	to replace current illustrations with improved ones below: 
Ad. 23	to replace current illustrations with improved ones below (to be presented as individual illustrations with line at the same level): 
Ad. 35	to read "Observations should be made on the side of the fruit which is exposed to the sun."
Ad. 36	to read "Observations should be made on the central part of the fruit by counting in a defined area [e.g. a 1 cm square] or by visual assessment."
TQ 4.2.2	to read "Seeds" (see GN 31, example 2)
Ad. 42	to read "... plants have at least one open flower"
Ad. 43	to read "... plants have at least one fully colored fruit."

**TC-EDC/Mar23/4 Matters to be resolved concerning Test Guidelines put forward for adoption by the Technical Committee: Sunflower**

The TC-EDC, at its meeting held in Geneva on March 21, 2023, considered documents TG/81/7(PROJ.5) and TC-EDC/Mar23/4 and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the draft Test Guidelines for Sunflower be circulated to the TC for adoption by correspondence.

General	- to replace “grains” by “seeds” throughout the TG - to correct spelling of “disc floret” (instead of “disk” throughout the TG)
2.3	to read “... 1 kg of seed for hybrid and open-pollinated varieties...”
3.1.2	to be deleted as it is an annual crop
Char. 5	to read “Leaf: profile in cross-section”
#Char. 6	to be reviewed (states of expression do not relate to the title of the char.) <i>Leading Expert: the characteristic title should read “Leaf: shape”. Ad.6 clarifies what should be observed.</i> <i>TC-EDC: state 1 to read “elliptic”; state 2 to read “very narrow triangular; state 6 to read “triangular to rounded”</i>
Char. 7	to read “Leaf: lobes”
Char. 8	- to read “Leaf: parenchyma at base of lateral veins” - to have states (1) none or very weak, (2) weak, (3) strong
Char. 12	- state 1 to read “erect” - state 2 to read “semi-erect”
Char. 13	- to read “Ray floret: profile” - to have states (1) flat, (2) rolled, (3) twisted, (4) strongly recurved
Char. 16	to delete “moderately” from states 2 and 3
#Char. 20	to check whether to have same explanation as characteristic 21 <i>Leading Expert: agreed</i>
Char. 26	to replace “embracing” with “adpressed” in all states
Char. 30	to read “... position of branching”
#Char. 34	- to read “Head: diameter” - to add in the explanation that for branching varieties the central head should be observed <i>Leading Expert: agreed</i>
Char. 42	to check whether to have order of colors according to document TGP/14 (brown before grey)
Char. 40	- to read “Seed: stripes on margins” - to have states (1) none or very weak, (2) weak, (3) strong
Char. 41	to have states (1) none or very weak, (2) weak, (3) strong

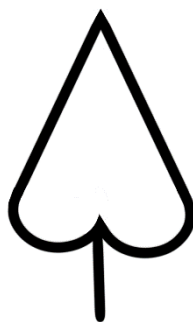
#Ad. 6	<ul style="list-style-type: none"> <li>- to read "Observations should be made on the upper two-thirds of the leaf."</li> <li><i>Leading Expert: to delete sentence or to read "Observation should be made on the distal part of the leaf"</i></li> <li>- to add drawings illustrating the shapes</li> <li><i>Leading Expert: provided illustrations</i></li> </ul>
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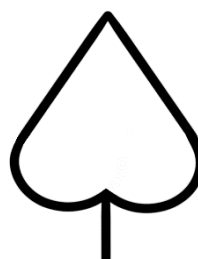
1  
elliptic



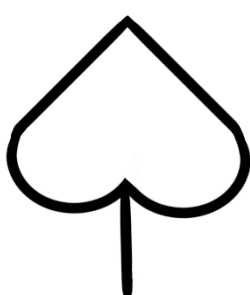
2  
very narrow  
triangular



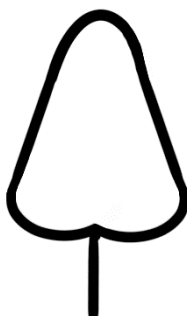
3  
narrow triangular



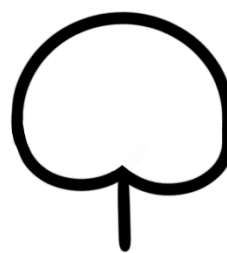
4  
medium triangular



5  
broad triangular



6  
triangular to rounded



7  
rounded



Ad. 17	to check whether to read "The ray floret color is the color with the largest surface area. In cases where the areas of the color are too similar to reliably decide which color has the largest area, the darker color is to be observed."
Ad. 18	to read "...inner third of the disc."
Ad. 23	to read "To be observed excluding the differentiated tip."
Ad. 24	to delete arrow
Ad. 30	state 3 to read "throughout"
9.	to adjust format of literature references (see TGP/7, GN 30)
TQ 5.6, 5.7	to delete "the variety is not ..."
TQ 7.3 (2)	to replace "precise" with "specify" in (a) and (b)
ANNEX, Part III, Procedure, 5.4	<ul style="list-style-type: none"> <li>- to remove additional space between "de-ionised water"</li> <li>- to remove additional space before "fixed in 40% ethanol solution"</li> </ul>



**TC-EDC/Mar23/5 Matters to be resolved concerning Test Guidelines put forward for adoption by the Technical Committee: Ling, Scots Heather**

The TC-EDC, at its meeting held in Geneva on March 21, 2023, considered documents TG/94/7(PROJ.3) and TC-EDC/Mar23/5 and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the draft Test Guidelines for Sunflower be circulated to the TC for adoption by correspondence.

Cover page	to add "Bruyère commune" and "Bruyère callune" as French alternative names
2.2	to delete "well-rooted"
#Table of chars.	to check whether to reduce "Only varieties with..." exclusions from the char. title and find a better approach (possible explanations in Chapter 8.1) <i>Leading Expert agreed and proposes the following changes:</i> <ul style="list-style-type: none"> <li>- to delete exclusion "Only varieties with ..." in characteristics 19 to 23</li> <li>- to merge char. 19 and 22 as follows: characteristic 19 to read "Flower: main color of outer side of sepal <u>at beginning of flowering</u>" and to delete characteristic 22 "</li> <li>- characteristic 21 to read "Flower: color of outer side of petal <u>at end of flowering</u>"</li> <li>- to move characteristic 23 before characteristic 20 and to read "Flower: main color of outer side of sepal <u>at end of flowering</u>"</li> </ul>
Char. 4	to add MS
Char. 5	to read "Shoot: color"
Char. 6	to read "... Shoot apex: leaf color"
Char. 7	to read "... Shoot apex: leaf color on sunny side in winter"
Chars. 7, 11	to replace "black purple" with "blackish purple"
Chars. 8 to 11	to replace "main color" by "color"
Chars. 9 to 11	<i>Leading Expert: to underline the observation period ("...in summer", "in autumn", "in winter")</i>
Char. 10	to replace "black green" with "blackish green"
Char. 12	state 3 to read "on lateral shoots"
Char. 12	to be split in two QL char.: <ul style="list-style-type: none"> <li>- "Inflorescence: branching" with states (1) absent, (9) present</li> <li>- "Only varieties with Inflorescence: branching: absent: Inflorescence: arrangement of flowers" with states (1) solitary and (2) whorl</li> <li>- both to be indicated as VG, (*), (a), combined (+) (See Ad. ...)</li> </ul> <i>Leading Expert: to merge state 1 and 2, to delete "Only varieties with ..." and to read "Inflorescence: branching" (1) absent with example varieties Angie, Lisbeth, (2) present with example variety "Sabella"</i> Ad. 12: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>1 <i>absent</i></p> </div> <div style="text-align: center;">  <p>9 <i>present</i></p> </div> </div>
8.1 (a)	to read "... middle third of the shoots"

8.1 (b)	to read "... on the shaded part of the plant."
8.1 (c)	to read "...after a few days with minimum temperatures below zero degrees Celsius."
8.1 (e)	to read "Observations should be made when 10 % of the plants have at least 10 senescent flowers."

[End of Annex II and document]