

Administrative and Legal Committee

CAJ/80/2

**Eightieth Session
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REPORT ON DEVELOPMENTS IN THE TECHNICAL COMMITTEE

Document prepared by the Office of the Union

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EXECUTIVE SUMMARY

1. The purpose of this document is to report on developments in the Technical Committee (TC) at its fifty-ninth session, held in Geneva on October 23 and 24, 2023, of relevance for the Administrative and Legal Committee (CAJ).
2. The report of the TC is available in document TC/59/28 “Report”.
3. The CAJ is invited to note developments at the fifty-ninth session of the TC, as reported in this document.
4. The structure of this document is as follows:

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5. The following abbreviations are used in this document:

CAJ:	Administrative and Legal Committee
TC:	Technical Committee
TC-EDC:	Enlarged Editorial Committee
TWA:	Technical Working Party for Agricultural Crops
TWF:	Technical Working Party for Fruit Crops
TWM:	Technical Working Party on Testing Methods and Techniques
TWO:	Technical Working Party for Ornamental Plants and Forest Trees
TWV:	Technical Working Party for Vegetables
TWPs:	Technical Working Parties

DEVELOPMENT OF GUIDANCE AND INFORMATION MATERIALS

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

Information Documents

Revision of document UPOV/INF/16 “Exchangeable Software” (document UPOV/INF/16/12 Draft 1)

7. 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)

8. 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

Matters for adoption by the Council

New variety denomination classes for Allium

9. 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	-

10. 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 groups for *Beta vulgaris*

11. 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 follows:

Classes within a genus

	<u>Botanical names</u>	<u>UPOV codes</u>
Class 2.1	<p><u><i>Beta vulgaris</i> Fodder Beet Group (Other botanical names:</u> <u><i>Beta vulgaris</i> L. ssp. <i>vulgaris</i> var. <i>alba</i> DC.,</u> <u><i>B. vulgaris</i> L. ssp. <i>vulgaris</i> var. <i>crassa</i> Alef.;</u> <u><i>B. vulgaris</i> L. ssp. <i>vulgaris</i> var. <i>crassa</i> Mansf.;</u> <u><i>B. vulgaris</i> L. ssp. <i>vulgaris</i> var. <i>rapacea</i> K. Koch)</u></p> <p><u><i>Beta vulgaris</i> Sugar Beet Group (Other botanical names:</u> <u><i>Beta vulgaris</i> L. ssp. <i>vulgaris</i> var. <i>saccharifera</i> Alef.</u> <u><i>Beta vulgaris</i> L. ssp. <i>vulgaris</i> var. <i>altissima</i> Doell)</u></p>	BETAA_VUL_GVA; BETAA_VUL_GVS
Class 2.2	<p><u><i>Beta vulgaris</i> Garden Beet Group (Other botanical names:</u> <u><i>Beta vulgaris</i> ssp. <i>vulgaris</i> var. <i>conditiva</i> Alef. (syn.: <i>B. vulgaris</i> L.</u> <u>var. <i>rubra</i> L.),</u> <u><i>B. vulgaris</i> L. ssp. <i>vulgaris</i> var. <i>esculenta</i> L.;</u> <u><i>B. vulgaris</i> L. ssp. <i>vulgaris</i> var. <i>hortensis</i></u></p> <p><u><i>Beta vulgaris</i> Leaf Beet Group (Other botanical names:</u> <u><i>Beta vulgaris</i> L. ssp. <i>vulgaris</i> var. <i>flavescens</i> DC. f. <i>Crispa</i>,</u> <u><i>B. vulgaris</i> L. var. <i>cicla</i> L. (L.) Ulrich, <i>B. vulgaris</i> L. ssp. <i>vulgaris</i> var.</u> <u><i>vulgaris</i> }</u></p>	BETAA_VUL_GVC; BETAA_VUL_GVF
Class 2.3	<i>Beta</i> other than classes 2.1 and 2.2.	other than classes 2.1 and 2.2

12. 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.

Matters for consideration by the Technical Working Parties, at their sessions in 2024 (not for adoption by the Council)

New variety denomination classes for *Prunus*

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

14. 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*.

15. The TC agreed to invite the TWP, 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.

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

16. 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

17. 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:

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

18. 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.

MEASURES TO ENHANCE COOPERATION IN EXAMINATION

19. 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.

20. 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.

21. 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

22. 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"

23. 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"

24. 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.

25. 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

26. 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]

27. 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

28. 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.

MOLECULAR TECHNIQUES

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

Confidentiality & ownership of molecular information

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

31. 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

32. 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)

PROGRAM OF WORK FOR THE ENLARGED EDITORIAL COMMITTEE (TC-EDC) IN 2024

33. 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)]

DISCUSSION ON DISEASE RESISTANCE CHARACTERISTICS IN DUS EXAMINATION

34. 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, CIOPORA, Euroseeds and ISF.

MATTERS FOR INFORMATION

UPOV information databases

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

Updating botanical nomenclature of UPOV CODES

UPOV codes for redundant genera in the GENIE database

36. 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>	CHRYS	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>Dimorphotheca</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
<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>	GYPSO	TWO
<i>Vetiveria</i>	VETIV	<i>Chrysopogon</i>	CHRPG	TWO
<i>Vulpia</i>	VULPI	<i>Festuca</i>	FESTU	TWO, TWA

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>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

37. 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

38. 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*

39. 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*

40. The TC agreed to delete the UPOV code ZEAAA_MAY_MIC, which would be replaced by the UPOV code ZEAAA_MAY_EVE.

41. 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	<i>Zea mays</i> L. subsp. <i>mays</i> Popcorn Group	<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_MIC
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	<i>Zea mays</i> L. subsp. <i>mays</i> Sweet Corn Group	<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	<i>Zea mays</i> L. subsp. <i>mays</i> Maize Group	<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; <i>Zea mays</i> L. <i>saccharata</i> Koern.; <i>Zea mays</i> L. var. <i>everta</i> (Praecox) Sturt.; <i>Zea mays</i> L. convar. <i>microsperma</i> Koern.	Reduction of scope to delete Sweet Corn and Popcorn

42. 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

43. The TC agreed to delete and amend the UPOV Codes CLEOM_HAS, CLEOM_SPI, EIPH_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.

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