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| International Union for the Protection of New Varieties of Plants |  |

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| Technical CommitteeFifty-Ninth SessionGeneva, October 23 and 24, 2023Administrative and Legal CommitteeEightieth SessionGeneva, October 25, 2023 | SESSIONS/2023/3Original: EnglishDate: October 17, 2023 |

UPOV information databases

Document prepared by the Office of the Union

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Executive summary

 The purpose of this document is to report to the TC and the CAJ developments concerning the GENIE database and to invite the TC to consider proposals to amend UPOV codes.

The TC is invited to consider:

1. the deletion of UPOV codes for 53 redundant genera in the GENIE database, as presented in paragraph 11 of this document.
2. the resource implications of the systematic checking and updating of botanical names in the GENIE database to follow taxonomic developments in the GRIN.
3. creating variety groups to the UPOV codes for *Beta vulgaris* L. ssp. *vulgaris*, as set out in paragraph 20 of this document.
4. the proposal to create variety groups for the UPOV codes for *Cichorium intybus*, as set out in paragraph 25 of this document.
5. deleting the UPOV code ZEAAA\_MAY\_MIC, to be replaced by the UPOV code ZEAAA\_MAY\_EVE;
6. amending the UPOV codes ZEAAA\_MAY\_EVE, ZEAAA\_MAY\_MAY and ZEAAA\_MAY\_SAC and associated information to establish variety groups, as set out in paragraph 30 of this document;
7. inviting 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; and
8. the proposal 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 paragraphs 34 to 57 of this document.

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 The following abbreviations are used in this document:

CAJ: Administrative and Legal Committee

GRIN: Germplasm Resources Information Network

 TC: Technical Committee

 TWA: Technical Working Party for Agricultural Crops

 TWF: Technical Working Party for Fruit Crops

 TWM: Technical Working Party for Testing Methods and Techniques

 TWO: Technical Working Party for Ornamental Plants and Forest Trees

 TWP(s): Technical Working Party(ies)

 TWV: Technical Working Party for Vegetables

# updating botanical nomenclature of UPOV CODES

## Consideration at the Technical Working Party for Ornamental Plants and Forest Trees (TWO)

 The TWO, at its fifty-fifth session[[1]](#footnote-2), received a presentation on “UPOV Information databases: Issues linked to UPOV codes and the update of the botanical nomenclature” by an expert from the European Union. A copy of the presentation is provided in document TWO/55/9 (see document TWO/55/11 “Report”, paragraphs 31 to 36).

 The TWO considered the proposal to introduce a system to alert whenever a botanical name used in GENIE was updated in the Germplasm Resources Information Network (GRIN) database, as set out in document TWO/55/9. The TWO agreed to invite the Office of the Union to investigate the resource implications to develop a procedure for updating the principal botanical names of species in the GENIE database following developments in GRIN.

 The TWO noted the comment from the Office of the Union that document UPOV/INF/23 “Guide to the UPOV Code System” explained that amendments to UPOV codes would not be made as a result of taxonomic developments unless these would result in a change to the genus classification of a species.

 The TWO discussed the example provided in document TWO/55/9 of two UPOV codes for synonym genera in GRIN (STEPH, synonym of NEILL). The TWO agreed to invite the Office of the Union to delete the synonym UPOV code “STEPH” and inform data contributors to the GENIE database accordingly.

 The TWO received an oral report from the Office of the Union that 53 genera in GENIE had been identified with redundant UPOV codes as a result of taxonomic changes, as reproduced in the following section of this document.

 The TWO agreed to invite the Office of the Union to periodically check the GENIE database for the existence of redundant UPOV codes for synonym genera.

## UPOV codes for redundant genera in the GENIE database

 The TC might wish to consider the deletion of the UPOV codes for 53 redundant genera in the GENIE database, as presented in the table below:

| GENIE database | GRIN database | GENIE database |
| --- | --- | --- |
| Reclassified genera | UPOV codeto be deleted | Accepted genera name | UPOV code(accepted genera in GRIN) | Relevant Technical Working Party(s) |
| *Acanthopanax* | ACNTP | *Eleutherococcus* | ELEUT | TWO |
| *Acmena* | ACMEN | *Syzygium* | SYZYG | TWO, TWF |
| *Ajania* | AJANI | *Chrysanthemum* | CHRYS | TWO |
| *Ammophila* | AMMOP | *Calamagrostis* | CALMG | TWO |
| *Anagallis* | ANAGA | *Lysimachia* | LYSIM | TWO |
| *Belamcanda* | BELAM | *Iris* | IRISS | TWO |
| *Cardaria* | CARDA | *Lepidium* | LEPID | TWO, TWV |
| *Castalis* | CASTL | *Dimorphotheca* | DIMOR | TWO |
| *Chamaecytisus* | CHMCT | *Cytisus* | CYTIS | TWO |
| *Cheiranthus* | CHEIR | *Erysimum* | ERYSI | TWO |
| *Cimicifuga* | CIMIC | *Actaea* | ACTAE | TWO |
| *Cnicus* | CNICU | *Centaurea* | CENTA | TWO |
| *Cochlioda* | COCHD | *Oncidium* | ONCID | TWO |
| *Coluria* | COLUR | *Geum* | GEUMM | TWO |
| *Crypsis* | CRYPS | *Sporobolus* | SPORO | TWO, TWA |
| *Daemonorops* | DAEMO | *Calamus* | CALAM | TWO |
| *Dichroa* | DICHR | *Hydrangea* | HYDRN | TWO |
| *Dodecatheon* | DODEC | *Primula* | PRIMU | TWO |
| *Fortunella* | FORTU | *Citrus* | CITRU | TWO, TWF |
| *Gaura* | GAURA | *Oenothera* | OENOT | TWO |
| *Hebe* | HEBEE | *Veronica* | VERON | TWO |
| *Hemidiodia* | HEMID | *Oenothera* | OENOT | TWO |
| *Hylocereus* | HYLOC | *Selenicereus* | SELEN | TWO, TWV, TWF |
| *Laurentia* | LAURE | *Lobelia* | LOBEL | TWO |
| *Lychnis* | LYCHN | *Silene* | SILEN | TWO, TWV |
| *Manfreda* | MANFR | *Agave* | AGAVE | TWO, TWV |
| *Manglietia* | MANGL | *Magnolia* | MAGNO | TWO |
| *Menziesia* | MENZI | *Rhododendron* | RHODD | TWO |
| *Miyamayomena* | MIYAM | *Aster* | ASTER | TWO |
| *Odontoglossum* | ODONT | *Oncidium* | ONCID | TWO |
| *Parakmeria* | PARAK | *Magnolia* | MAGNO | TWO |
| *Pedilanthus* | PEDIL | *Euphorbia*  | EUPHO | TWO, TWV |
| *Pennisetum* | PENNI | *Cenchrus* | CENCH | TWO, TWA |
| *Poncirus* | PONCI | *Citrus* | CITRU | TWO, TWF |
| *Porphyra* | PORPH | *Callicarpa* | CALLC | TWO, TWV |
| *Pratia* | PRATI | *Lobelia* | LOBEL | TWO |
| *Pulsatilla* | PULSA | *Anemone* | ANEMO | TWO |
| *Rhagodia* | RHAGO | *Chenopodium* | CHENO | TWO, TWA |
| *Rollinia* | ROLLI | *Annona* | ANNON | TWF |
| *Schizophragma* | SCHIO | *Hydrangea* | HYDRN | TWO |
| *Sclerostachya* | SCLRS | *Miscanthus* | MISCA | TWO |
| *Sedirea* | SEDIR | *Phalaenopsis* | PHALE | TWO |
| *Sophronitis* | SOPHR | *Cattleya* | CATTL | TWO |
| *Stephanandra* | STEPH | *Neillia* | NEILL | TWO |
| *Tacitus* | TACIT | *Graptopetalum* | GRATP | TWO |
| *Taxodiomeria* | TAXDI | *Taxodium* | TAXOD | TWO |
| *Trichloris* | TRICL | *Leptochloa* | LPTOC | TWO |
| *Uncinia* | UNCIN | *Carex* | CAREX | TWO |
| *Vaccaria* | VACCA | *Gypsophila* | GYPSO | TWO |
| *Vetiveria* | VETIV | *Chrysopogon* | CHRPG | TWO |
| *Vulpia* | VULPI | *Festuca* | FESTU | TWO, TWA |
| *Waldsteinia* | WALDS | *Geum* | GEUMM | TWO |
| *Xanthocyparis* | XNTHC | *Cupressus* | CUPRE | TWO |

 Members of the Union and contributors of data to the PLUTO database would be informed of any deletions and the date in 2024 of the deletions by means of a Circular in advance. Contributors of data to the PLUTO database would be requested to use the updated UPOV codes when submitting their plant variety data to the Office of the Union.

 *The TC is invited to consider the deletion of UPOV codes for 53 redundant genera in the GENIE database, as presented in paragraph 11 of this document.*

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

 Document “Guide to the UPOV Code System” provides the following:

“4.3 (d) In general, amendments to UPOV codes will not be made as a result of taxonomic developments unless these result in a change to the genus classification of a species. […]”

 The change of approach to introduce systematic checking and updating of principal botanical names of species in the GENIE database to follow developments in the GRIN database would require substantial resources from the UPOV Office.

 It is proposed that the update of botanical names in GENIE continues to be provided in accordance with paragraph 4.3(d) of the Guide to the UPOV code system or if a particular need is identified by members.

 *The TC is invited to consider the resource implications of the systematic checking and updating of botanical names in the GENIE database to follow taxonomic developments in the GRIN.*

Replacing complex botanical nomenclature by variety groups

 The background to this matter is provided in document TC/58/10 “UPOV information databases”.

## UPOV codes for Beta vulgaris

 Matters concerning the creation of variety groups for the UPOV codes for *Beta vulgaris* L. ssp. *vulgaris* are provided in document SESSIONS/2023/2 “Development of guidance and documents proposed for adoption by the Council”.

## UPOV codes for Brassica oleracea

 The TWV, at its fifty-seventh session[[2]](#footnote-3), agreed to propose creating variety groups for UPOV codes for *Brassica oleracea*, as set out in document TWV/57/18, Annex I, and reproduced as follows (see document TWV/57/26 “Report”, paragraph 42):

|  |  |  |  |
| --- | --- | --- | --- |
| UPOV code  | BOTANICAL NAMES IN GENIE | BOTANICAL NAMES IN GRIN | Proposal Group name |
| BRASS\_OLE\_ALB | *Brassica oleracea* L. var. *alboglabra* (L. H. Bailey) Musil*Brassica alboglabra* L. H. Bailey; *Brassica oleracea*  var. *albiflora* auct. | *Brassica oleracea*  L. var. *alboglabra* (L. H. Bailey) Musil (*Brassica oleracea*  Chinese Kale or Kailaan Group) | *Brassica oleracea*  L. (Chinese Kale or Kailaan Group) |
| BRASS\_OLE\_COS | *Brassica oleracea*  L. var. *costata* DC.*Brassica capitata* subsp. *costata* (DC.) Lizg.; *Brassica oleracea*  convar. *acephala* var. *luteola* Alef.; *Brassica oleracea*  subsp. *oleracea* convar. *costata* (DC.) Gladis; *Brassica oleracea*  var. *tronchuda* L.H. Bailey | *Brassica oleracea*  L. var. *costata* DC. (*Brassica oleracea*  Portuguese Kale Group) | *Brassica oleracea*  L. (Tronchuda Group) |
| BRASS\_OLE\_~~COS~~ GA | *Brassica oleracea*  L. convar. *acephala* (DC.) Alef. | *Brassica oleracea*  L. var. *sabellica* L. (*Brassica oleracea*  Kale Group) | *Brassica oleracea*  L. (Kale Group) |
| BRASS\_OLE\_GAM | *Brassica oleracea*  L. convar. *acephala* (DC.) Alef. var. *medullosa* Thell.*Brassica oleracea*  L. var. *medullosa* Thell. | *Brassica oleracea*  L. var. *medullosa* Thell. (*Brassica oleracea*  Marrowstem Kale Group) | *Brassica oleracea*  L. (Marrowstem Kale Group) |
| BRASS\_OLE\_GAR | *Brassica oleracea*  L. var. *ramosa* DC. | *Brassica oleracea*  L. var. *ramosa* DC. (*Brassica oleracea*  Thousand Head Kale Group) | *Brassica oleracea*  L. (Thousand Head Kale Group) |
| BRASS\_OLE\_GAS | *Brassica oleracea*  L. convar. *acephala* (DC.) Alef. var. *sabellica* L.*Brassica oleracea*  L. var. *sabellica* L. | *Brassica oleracea*  L. var. *sabellica* L. (*Brassica oleracea*  Acephala Group) | *Brassica oleracea*  L. (Curly kale Group) |
| BRASS\_OLE\_GBB | *Brassica oleracea*  L. convar. *acephala* (DC.) Alef. var. *viridis* L.*Brassica oleracea*  L. var. *viridis* L. | *Brassica oleracea*  L. var. *viridis* L. (*Brassica oleracea*  Collard Group) | *Brassica oleracea*  L. (Collard Group) |
| BRASS\_OLE\_GBC | *Brassica oleracea*  L. var. *italica* Plenck*Brassica oleracea*  L. var. *botrytis* L. subvar. *cymosa* Duchesne; *Brassica oleracea*  L. var. *cymosa* (Duchesne) DC.; *Brassica oleracea*  subvar. *cymosa* Duchesne | *Brassica oleracea*  L. var. *italica* Plenck (*Brassica oleracea*  Broccoli Group) | *Brassica oleracea*  L. (Broccoli Group) |
| BRASS\_OLE\_GC | *Brassica oleracea*  L. convar. *capitata* (L.) Alef.*Brassica oleracea*  L. convar. *capitata* (L.) Alef. var. *alba* DC. x *Brassica oleracea*  L. convar. *capitata* (L.) Alef. var. *rubra* (L.) Thell.; *Brassica oleracea*  L. convar. *capitata* (L.) Alef. var. *capitata* (L.) Alef.; *Brassica oleracea*  L. var. *capitata* L. | *Brassica oleracea*  L. var. *capitata* L. (*Brassica oleracea*  Red Cabbage and White/Green Cabbage Groups) | *Brassica oleracea*  L. (Cabbage Group) |
| BRASS\_OLE\_GCA | *Brassica oleracea*  L. convar. *capitata* (L.) Alef. var. alba DC.*Brassica oleracea*  L. convar. *capitata* (L.) Alef. var. *capitata* L. f. alba DC. | *Brassica oleracea*  L. var. *capitata* L. (*Brassica oleracea*  White Cabbage Group) | *Brassica oleracea*  L. (White Cabbage Group) |
| BRASS\_OLE\_GCR | *Brassica oleracea*  L. convar. *capitata* (L.) Alef. var. *rubra* (L.) Thell.*Brassica oleracea*  L. convar. *capitata* (L.) Alef. var. *capitata* L. f. *rubra* (L.) Thell. | *Brassica oleracea*  L. var. *capitata* L. (*Brassica oleracea*  Red Cabbage Group) | *Brassica oleracea*  L. (Red Cabbage Group) |
| BRASS\_OLE\_GCS | *Brassica oleracea*  L. convar. *capitata* (L.) Alef. var. *sabauda* L.*Brassica oleracea*  L. convar. *capitata* (L.) Alef. var. *bullata* DC. | *Brassica oleracea*  L. var. sabauda L. (*Brassica oleracea*  Savoy Cabbage Group) | *Brassica oleracea*  L. (Savoy Cabbage Group) |
| BRASS\_OLE\_GGM | *Brassica oleracea*  L. var. *gemmifera* Zenker*Brassica oleracea*  L. convar. *oleracea* var. *gemmifera* DC.; *Brassica subspontanea* lizg | *Brassica oleracea*  L. var. *gemmifera* DC. (*Brassica oleracea*  Brussels Sprouts Group) | *Brassica oleracea*  L. (Brussels Sprouts Group) |
| BRASS\_OLE\_GGO | *Brassica oleracea*  L. var. *gongylodes* L.*Brassica caulorapa* (DC.) Pasq.; *Brassica oleracea*  L. convar. *acephala* (DC.) Alef. var. *gongylodes* L.; *Brassica oleracea*  var. *caulorapa* DC. | *Brassica oleracea*  L. var. gongylodes L. (*Brassica oleracea*  Kohlrabi Group) | *Brassica oleracea*  L. (Kohlrabi Group) |
| BRASS\_OLE\_PAL | *Brassica oleracea*  L. var. *palmifolia* DC. | *Brassica oleracea*  L. var. *palmifolia* DC. (*Brassica oleracea*  Jersey Kale or Palmtree Kale Group) | *Brassica oleracea*  L. (Palm Kale Group) |

 The TWV, at its fifty-seventh session[[3]](#footnote-4), agreed to propose two new appended elements indicating variety groups “Tronchuda” (1TRON) and “Kale” (2KAL), to be used with UPOV Code BRAS\_OLE\_COS (see document TWV/57/26 “Report”, paragraph 42). Following the fifty-seventh session of the TWV, the Office of the Union was requested by the drafter of the proposal, Ms. Marian van Leeuwen (Netherlands), to correct the repeated mention to UPOV code “BRASS\_OLE\_COS” in the third line of the table to read “BRASS\_OLE\_GA”. The change proposed is indicated with highlighting and underline for addition and highlighting and ~~strikethrough~~ for deletion). This correction addresses the proposal from the TWV to separately identify the “Tronchuda Group” (BRAS\_OLE\_COS) and “Kale Group” (BRAS\_OLE\_GA). In this regard, the proposal for new elements to be appended to UPOV code BRAS\_OLE\_COS would no longer be applicable.

 *The TC is invited to consider creating variety groups to the UPOV codes for* Beta vulgaris *L. ssp.* vulgaris*, as set out in paragraph 20 of this document.*

## UPOV codes for *Cichorium intybus*

 The TWV, at its fifty-seventh session3, agreed to propose the creation of four variety groups for *Cichorium intybus*: “Witloof Chicory”; “Leaf Chicory”; “Industrial Chicory”; and “Forage Chicory” (see document TWV/57/26 “Report”, paragraphs 43 to 47).

 The TWV agreed to propose two new appended elements to be used with the UPOV Code “CICHO\_INT” to indicate “Witloof Group” (1WIT) and “Forage Chicory” (2FOR).

 The TWV agreed to propose amending the common names in GENIE to read as follows:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| UPOV code  | Botanical names in GENIE | GRIN | Proposed Group name | English | French | German | Spanish |
| CICHO\_INT\_1WIT | *Cichorium intybus* L. | *Cichorium intybus* L. | Witloof Chicory Group | Witloof chicory | Endive  | Chicorée  | Endivia |
| CICHO\_INT\_FOL | *Cichorium intybus* L. var. *foliosum* Hegi | *Cichorium intybus* L. | Leaf Chicory Group | Salad Chicory; Leaf chicory | Chicorée à feuille; Chicorée italienne  | Salatzichorie | Achicoria  |
| CICHO\_INT\_SAT | *Cichorium intybus* L. var. *sativum* DC. | *Cichorium intybus* L. | Industrial Chicory Group | Industrial Chicory; Large-rooted Chicory | Chicorée à café | Wurzelzichorie | Achicoria de café |
| CICHO\_INT\_2FOR | *Cichorium intybus* L. | *Cichorium intybus* L. | Forage Chicory Group | Forage Chicory | Chicorée fourrage | Futterzichorie | Achicoria forrajera |

 The TWV agreed to propose inviting contributors to the PLUTO database to consider updating the UPOV code used for varieties previously reported as CICHO\_INT using the UPOV codes associated with the proposed variety groups.

 *The TC is invited to consider* *the proposal to create variety groups for the UPOV codes for* Cichorium intybus*, as set out in paragraph 25 of this document.*

## UPOV codes for Zea mays

 Sweet Corn (UPOVCode: ZEAAA\_MAY\_SAC) and Popcorn (UPOV Codes: ZEAAA\_MAY\_EVE; and ZEAAA\_MAY\_MIC) have been reclassified as synonyms of *Zea mays*subsp. *mays* (UPOVCode: ZEAAA\_MAY\_MAY), which also encompasses Maize (Corn)*.*

 At their sessions in 2023, the TWV and TWA agreed to create variety groups for the UPOV code ZEAAA\_MAY\_MAY replacing infra-specific botanical names, as follows (see documents TWV/57/26 “Report”, paragraph 49; and TWA/52/11 “Report”, paragraph 33):

|  |  |  |  |
| --- | --- | --- | --- |
| Principal botanical name | Other botanical name(s) | Variety groups | Proposed UPOV code with group information  |
| *Zea mays* L. subsp. *mays* | *Zea mays* var *ceratina* L.; *Zea mays* var. *indentata* (Sturtev.) L. H. Bailey; *Zea mays* var. *indurata* (Sturtev.) L. H. Bailey;*Zea mays* var. *saccharata* (Sturtev.) L. H. Bailey; *Zea mays* L. *saccharata* Koern.;*Zea mays* L. var. *everta* (Praecox) Sturt.;*Zea mays* L. convar. *microsperma* Koern. | Corn; Maize: “1MA” | ZEAAA\_MAY\_**GMA** |
| Sweet Corn: “2SW”  | ZEAAA\_MAY\_**GSW** |
| Popcorn: “3PO” | ZEAAA\_MAY\_**GPO** |

 The following table provides information on the current UPOV codes and principal botanical names in the GENIE database for “*Zea mays* L.” and relevant subspecies; the taxa in the Germplasm Resources Information Network (GRIN); and the numbers of entries in the PLUTO database:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UPOV code | Principal botanical name in GENIE | Botanical name(s) in GRIN | Common name(s) in GENIE | Numbers of Entries in PLUTO |
| ZEAAA\_MAY | *Zea mays* L. | *Zea mays* L. | Corn; Maize | 164.900 |
| ZEAAA\_MAY\_EVE | *Zea mays* L. var. *everta* (Praecox) Sturt. | *Zea mays* L. var. *everta* (Praecox) Sturt. (as a synonym of *Zea mays* L. subsp. *mays* ) is not recognized in GRIN | Popcorn | 87 |
| ZEAAA\_MAY\_MAY | *Zea mays* L. subsp. *mays*  | *Zea mays* L. subsp. *mays* | corn; maize; sweet cornetc. | 780 |
| ZEAAA\_MAY\_MIC | *Zea mays* L. convar. *microsperma* Koern. | *Zea mays* L. convar. *microsperma* Koern. (as a synonym of *Zea mays* L. subsp. *mays*) is not recognized in GRIN | Popcorn | 187 |
| ZEAAA\_MAY\_SAC | *Zea mays* L. *saccharata* Koern. | *Zea mays* L. var. *saccharata* (Sturtev.) L. H. Bailey (synonym of *Zea mays* L. subsp. *mays* ) | Sweet Corn | 1.953 |

 Following the proposal from the TWV and TWA, the following changes to UPOV codes are proposed:

| Current | Proposal |
| --- | --- |
| UPOV code | Principal botanical name | Other botanical name(s) | UPOV code | Principal botanical name | Other botanical name(s) | Note |
| ZEAAA\_MAY\_EVE | *Zea mays* L. var. *everta* (Praecox) Sturt. | n.a. | ZEAAA\_MAY\_**GPO** | *Zea mays* L. subsp. *mays* Popcorn Group | *Zea mays* L. var. *everta* (Praecox) Sturt.;*Zea mays* L. convar. *microsperma* Koern. | Addition of new synonym previously under ZEAAA\_MAY\_MIC |
| ZEAAA\_MAY\_MIC | *Zea mays* L. convar. *microsperma* Koern. | n.a. | [to delete] | n.a. | n.a. | Principal botanical name added as other botanical name under *Z. mays* L. subsp. *mays* Popcorn Group |
| ZEAAA\_MAY\_SAC | *Zea mays* L. *saccharata* Koern. | n.a. | ZEAAA\_MAY\_**GSW** | *Zea mays* L. subsp. *mays* Sweet Corn Group | *Zea mays* var. *saccharata* (Sturtev.) L. H. Bailey; *Zea mays* L. *saccharata* Koern. |  |
| ZEAAA\_MAY\_MAY  | *Zea mays* L. subsp. *mays* | *Zea mays* var *ceratina* L.; *Zea mays* var. *indentata* (Sturtev.) L. H. Bailey; *Zea mays* var. *indurata* (Sturtev.) L. H. Bailey; *Zea mays* var. *saccharata* (Sturtev.) L. H. Bailey | ZEAAA\_MAY\_**GMA** | *Zea mays* L. subsp. *mays* Maize Group  | *Zea mays* var *ceratina* L.; *Zea mays* var. *indentata* (Sturtev.) L. H. Bailey; *Zea mays* var. *indurata* (Sturtev.) L. H. Bailey;*~~Zea mays~~* ~~var.~~ *~~saccharata~~* ~~(Sturtev.) L. H. Bailey;~~ *~~Zea mays~~* ~~L.~~ *~~saccharata~~* ~~Koern.;~~*~~Zea mays~~* ~~L. var.~~ *~~everta~~* ~~(Praecox) Sturt.;~~*~~Zea mays~~* ~~L. convar.~~ *~~microsperma~~* ~~Koern.~~ | Reduction of scope to delete Sweet Corn and Popcorn |

 It should be noted that the scope of the UPOV code ZEAAA\_MAY\_MAY would be reduced to cover only Maize and no longer Sweet Corn and Popcorn. The TC may wish to consider inviting the Office of the Union to inform the eight contributors to the PLUTO database using UPOV code ZEAAA\_MAY\_MAY whether to allocate their existing entries to *Zea mays* ssp. *mays* Group Maize.

 *The TC is invited to consider:*

1. *deleting the UPOV code ZEAAA\_MAY\_MIC, to be replaced by the UPOV code ZEAAA\_MAY\_EVE;*
2. *amending the UPOV codes ZEAAA\_MAY\_EVE, ZEAAA\_MAY\_MAY and ZEAAA\_MAY\_SAC and associated information to establish variety groups, as set out in paragraph 30 of this document; and*
3. *inviting 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.*

## Presentation: “Replacing botanical nomenclature by variety groups: some practical consequences”

 The TWV, at its fifty-seventh session, received a presentation on “Replacing botanical nomenclature by variety groups, some practical consequences” by an expert from the European Union. A copy of the presentation is provided in document TWV/57/18, Annex II. The TWV noted the report on the use of variety groups for different vegetable crops and agreed to invite the European Union to present proposals for appending information to UPOV Codes and/or creating variety groups at its fifty-eighth session (see document TWV/57/26 “Report”, paragraph 47).

Proposed amendments to UPOV CODES CONSIDERED BY THE TWO in 2023

 The TWO, at its fifty-fifth session, considered document TWP/7/7. The TWO agreed with the proposals to delete and/or amend UPOV Codes for ornamental species, as set out in document TWP/7/7, paragraphs 14 to 37, and reproduced in the following sections of this document.

## UPOV code for *Berberis* species

 The Office of the Union was informed of the reclassification of certain *Berberis* speciesto *Mahonia* species.

 The current entries in the GENIE database for certain *Berberis* species, the taxa in GRIN and the numbers of entries in the PLUTO database, are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UPOV code | Principal botanical name in GENIE | Botanical name(s)in GRIN | Common name(s)in GENIE | Number of entries in PLUTO |
| BERBE\_AQU | *Berberis aquifolium* Pursh | *Mahonia aquifolium* (Pursh) Nutt. | blue barberry, holly barberry, holly mahonia, mountain-grape, Oregon-grape | 6 |
| BERBE\_EUR | *Berberis eurybracteata* (Fedde) Laferr. | *Mahonia eurybracteata* Fedde | n.a. | 3 |
| BERBE\_NIT | *Berberis nitens* (C. K. Schneid.) Laferr. | *Berberis nitens* (C. K. Schneid.) Laferr. | n.a | 1 |
| BERBE\_PUM  | *Berberis pumila* Greene | *Mahonia pumila* (Greene) Fedde | n.a | 0 |
| BERBE\_REP | *Berberis repens* Lindl. | *Mahonia repens* (Lindl.) G. Don | creeping barberry, creeping mahonia, Oregon barberry, Oregon grape-holly, Oregon-grape | 5 |

### Proposal

 The TC might wish to consider replacing the UPOV codes BERBE\_AQU, BERBE\_EUR, BERBE\_NIT, BERBE\_PUM and BERBE\_REP by the UPOV Codes MAHON\_AQU, MAHON\_EUR, MAHON\_NIT, MAHON\_PUM and MAHON\_REP, respectively, as follows:

|  |  |
| --- | --- |
| Current | Proposal |
| UPOV code | Principal botanical name | Other botanical name(s) | UPOV code | Principal botanical name | Other botanical name(s) |
| BERBE\_AQU | *Berberis aquifolium* Pursh | *Berberis diversifolia* (Sweet) Steud.; *Mahonia aquifolium* (Pursh) Nutt.; *Mahonia aquifolium* subsp. *aquifolium* (Pursh) Nutt.; *Mahonia diversifolia* Sweet | MAHON\_ AQU | *Mahonia aquifolium* (Pursh) Nutt. | Mahonia diversifolia Sweet; Mahonia aquifolium (Pursh) Nutt.; Mahonia aquifolium (Pursh) Nutt. subsp. aquifolium; *Mahonia aquifolium* subsp. *aquifolium* (Pursh) Nutt. |
| BERBE\_EUR | *Berberis eurybracteata* (Fedde) Laferr. | *Mahonia eurybracteata* Fedde | MAHON\_EUR | *Mahonia eurybracteata* Fedde | *Berberis eurybracteata* (Fedde) Laferr. |
| BERBE\_NIT | *Berberis nitens* (C. K. Schneid.) Laferr. | *Mahonia nitens* C. K. Schneid. | MAHON\_NIT | *Mahonia nitens* C. K. Schneid. | *Berberis nitens* (C. K. Schneid.) Laferr. |
| BERBE\_PUM | *Berberis pumila* Greene | *Mahonia pumila* (Greene) Fedde | MAHON\_PUM | *Mahonia pumila* (Greene) Fedde | *Berberis pumila* Greene |
| BERBE\_REP | *Berberis repens* Lindl. | *Berberis sonnei* (Abrams) McMinn*; Mahonia repens* (Lindl.) G. Don*; Mahonia repens var. repens* (Lindl.) G. Don*; Mahonia repens var.* rotundifolia (May) Fedde*; Mahonia sonnei* Abrams | MAHON\_REP | *Mahonia repens* (Lindl.) G. Don | *Berberis repens* Lindl.; *Berberis sonnei* (Abrams) McMinn*; Mahonia repens* (Lindl.) G. Don*; Mahonia repens var. repens* (Lindl.) G. Don*; Mahonia repens var.* rotundifolia (May) Fedde*; Mahonia sonnei* Abrams |

## UPOV code for Calathea species

 The Office of the Union was informed of the reclassification of certain *Calathea* speciesto *Goeppertia* species.

 The current entries in the GENIE database for certain *Calathea* species, the taxa in GRIN and the numbers of entries in the PLUTO database, are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UPOV code | Principal botanical name in GENIE | Botanical name(s)in GRIN | Common name(s)in GENIE | Number of entries in PLUTO |
| CALAT\_CRO | *Calathea crocata* E. Morren & Joriss. | *Goeppertia crocata* (É. Morren & Joriss.) Borchs. & S. Suárez | n.a. | 8 |
| CALAT\_LOE | *Calathea loeseneri* J. F. Macbr. | *Goeppertia loeseneri* (J. F. Macbr.) Borchs. & S. Suárez | n.a. | 0 |
| CALAT\_ROS | *Calathea roseopicta* (Linden) Regel | *Goeppertia roseopicta* (Linden) Borchs. & S. Suárez | n.a. | 25 |
| CALAT\_WAR | *Calathea warscewiczii* (Klotzsch) Körn. | *Goeppertia warscewiczii* (L. Mathieu ex Planch.) Borchs. & S. Suárez | n.a. | 3 |
| CALAT\_LRO | *Calathea loeseneri* J. F. Macbr*.* × *Calathea roseopicta* (Linden) Regel | n.a. | n.a. | 5 |

### Proposal

 The TC might wish to consider replacing the UPOV Codes CALAT\_CRO, CALAT\_LOE, CALAT\_ROS, CALAT\_WAR and CALAT\_LRO by the UPOV Codes GOEPP\_CRO GOEPP\_LOE, GOEPP\_ROS, GOEPP\_WAR and GOEPP\_LRO, as follows:

|  |  |
| --- | --- |
| Current | Proposal |
| UPOV code | Principal botanical name | Other botanical name(s) | UPOV code | Principal botanical name | Other botanical name(s) |
| CALAT\_CRO | *Calathea crocata* E. Morren & Joriss. | *Goeppertia crocata* (É. Morren & Joriss.) Borchs. & S. Suárez | GOEPP\_CRO  | *Goeppertia crocata* (É. Morren & Joriss.) Borchs. & S. Suárez | *Calathea crocata* É. Morren & Joriss. |
| CALAT\_LOE | *Calathea loeseneri* J. F. Macbr. | n.a. | GOEPP\_LOE | *Goeppertia loeseneri* (J. F. Macbr.) Borchs. & S. Suárez | *Calathea loeseneri* J. F. Macbr. |
| CALAT\_ROS | *Calathea roseopicta* (Linden) Regel | *Goeppertia roseopicta* (Linden) Borchs. & S. Su rez | GOEPP\_ROS | *Goeppertia roseopicta* (Linden) Borchs. & S. Suárez | *Calathea roseopicta* (Linden) Regel |
| CALAT\_WAR | *Calathea warscewiczii* (Klotzsch) Körn. | *Calathea warscewiczii* (Mathieu ex Planch.) Körn. | GOEPP\_WAR | *Goeppertia warscewiczii* (L. Mathieu ex Planch.) Borchs. & S. Suárez | *Calathea warscewiczii* (L. Mathieu ex Planch.) Planch. & Linden |
| CALAT\_LRO | *Calathea loeseneri* J. F. Macbr*.* × *Calathea roseopicta* (Linden) Regel | n.a. | GOEPP\_LRO | *Goeppertia loeseneri* (J. F. Macbr.) Borchs. & S. Suárez × *G. roseopicta* (Linden) Borchs. & S. Suárez | *Calathea loeseneri* J. F. Macbr*.* × *C. roseopicta* (Linden) Regel |

## UPOV code for Castalis species

 The Office of the Union was informed of the reclassification of certain *Castalis* speciesto *Dimorphotheca* species.

 The current entries in the GENIE database for certain *Castalis* species, the taxa in GRIN and the numbers of entries in the PLUTO database, are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UPOV code | Principal botanical name in GENIE | Botanical name(s)in GRIN | Common name(s)in GENIE | Number of entries in PLUTO |
| CASTL\_TRA | *Castalis tragus* (Aiton) Norl. | *Dimorphotheca tragus* (Aiton) DC.. | n.a. | 3 |

### Proposal

 The TC might wish to consider replacing the UPOV code CASTL\_TRA by the UPOV Code DIMOR\_TRA, as follows:

|  |  |
| --- | --- |
| Current | Proposal |
| UPOV code | Principal botanical name | Other botanical name(s) | UPOV code | Principal botanical name | Other botanical name(s) |
| CASTL\_TRA | *Castalis tragus* (Aiton) Norl. | *Dimorphoteca aurantiaca; Dimorphoteca aurantiaca* DC.*; Dimorphotheca aurantiaca* DC.*; Dimorphotheca tragus* (Aiton) B. Nord*.* | DIMOR\_TRA | *Dimorphotheca tragus* (Aiton) DC. | Castalis tragus (Aiton) Norl.; *aurantiaca; Dimorphoteca aurantiaca* DC.*; Dimorphotheca aurantiaca* DC. |

## UPOV code for Cleome species

 The Office of the Union was informed of the reclassification of certain *Cleome* speciesto *Tarenaya* species.

 The current entries in the GENIE database for certain *Tarenaya* species, the taxa in GRIN and the numbers of entries in the PLUTO database, are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UPOV code | Principal botanical name in GENIE | Botanical name(s)in GRIN | Common name(s)in GENIE | Number of entries in PLUTO |
| CLEOM\_HAS  | *Cleome hassleriana* Chodat | *Tarenaya hassleriana* (Chodat) H. H. Iltis(synonym: *Cleome hassleriana* Chodat, *Cleome pungens* auct., *Cleome spinosa* auct.*)* | pink-queen; spider-flower; spiderplant | 8 |
| CLEOM\_SPI | *Cleome spinosa* Jacq. | *Tarenaya spinosa* (Jacq.) Raf.(synonym: *Cleome spinosa* Jacq.*)* | spiny spider-flower | 12 |

### Proposal

 The TC might wish to consider replacing the UPOV Codes CLEOM\_HAS and CLEOM\_SPI by the UPOV Codes TARNY\_SPI and TARNY\_HAS, respectively, as follows:

|  |  |
| --- | --- |
| Current | Proposal |
| UPOV code | Principal botanical name | Other botanical name(s) | UPOV code | Principal botanical name | Other botanical name(s) |
| CLEOM\_HAS  | *Cleome hassleriana* Chodat | *Cleome pungens* auct.; *Cleome spinosa* auct.; *Tarenaya hassleriana* (Chodat) H. H. Iltis | TARNY\_SPI  | *Tarenaya hassleriana* (Chodat) H. H. Iltis | *Cleome hassleriana* Chodat, *Cleome pungens* auct., *Cleome spinosa* auct. |
| CLEOM\_SPI | *Cleome spinosa* Jacq. | *Tarenaya spinosa* (Jacq.) Raf. | TARNY\_HAS | *Tarenaya spinosa* (Jacq.) Raf. | *Cleome spinosa* Jacq. |

## UPOV code for Deschampsia species

 The Office of the Union was informed of the reclassification of certain *Deschampsia* speciesto *Avenella* species.

 The current entries in the GENIE database for certain *Deschampsia* species, the taxa in GRIN and the numbers of entries in the PLUTO database, are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UPOV code | Principal botanical name in GENIE | Botanical name(s)in GRIN | Common name(s)in GENIE | Number of entries in PLUTO |
| DESCH\_FLE | *Deschampsia flexuosa* (L.) Trin. | *Avenella flexuosa* (L.) Parl. | n.a | 2 |

### Proposal

 The TC might wish to consider replacing the UPOV code DESCH\_FLE by the UPOV Code AVENE\_FLE, as follows:

|  |  |
| --- | --- |
| Current | Proposal |
| UPOV code | Principal botanical name | Other botanical name(s) | UPOV code | Principal botanical name | Other botanical name(s) |
| DESCH\_FLE | *Deschampsia flexuosa* (L.) Trin. | *Avenella flexuosa* (L.) Parl. | AVENE\_FLE  | *Avenella flexuosa* (L.) Parl. | *Deschampsia flexuosa* (L.) Trin. |

## UPOV code for Epiphyllum species

 The Office of the Union was informed of the reclassification of certain *Epiphyllum* speciesto *Tarenaya* species.

 The current entries in the GENIE database for certain *Tarenaya* species, the taxa in GRIN and the numbers of entries in the PLUTO database, are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UPOV code | Principal botanical name in GENIE | Botanical name(s)in GRIN | Common name(s)in GENIE | Number of entries in PLUTO |
| EPIPH\_ANG | *Epiphyllum anguligerum* (Lem.) G.Don | *Disocactus anguliger* (Lem.) M. Á. Cruz & S. Arias | n.a. | 2 |

### Proposal

 The TC might wish to consider replacing the UPOV Code EPIPH\_ANG by the UPOV Codes DISOC\_NGL, as follows:

|  |  |
| --- | --- |
| Current | Proposal |
| UPOV code | Principal botanical name | Other botanical name(s) | UPOV code | Principal botanical name | Other botanical name(s) |
| EPIPH\_ANG  | *Epiphyllum anguligerum* (Lem.) G.Don | *Disocactus anguliger* (Lem.) M. Á. Cruz & S. Arias | DISOC\_NGL  | *Disocactus anguliger* (Lem.) M. Á. Cruz & S. Arias | *Epiphyllum anguligerum* (Lem.) G.Don |

## UPOV code for Osteospermum species

 The Office of the Union was informed of the reclassification of certain *Osteospermum* speciesto *Dimorphotheca* species.

 The current entries in the GENIE database for certain *Osteospermum* species, the taxa in GRIN and the numbers of entries in the PLUTO database, are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UPOV code | Principal botanical name in GENIE | Botanical name(s)in GRIN | Common name(s)in GENIE | Number of entries in PLUTO |
| OSTEO\_ECK | *Osteospermum ecklonis* (DC.) Norl. | *Dimorphotheca ecklonis* DC. | n.a. | 1,159 |
| OSTEO\_FRU | *Osteospermum fruticosum* (L.) Norl. | *Dimorphotheca fruticosa* (L.) DC. | n.a. | 34 |

### Proposal

 The TC might wish to consider replacing the UPOV Codes OSTEO\_ECK, OSTEO\_FRU and OSTEO\_ECC by the UPOV Codes DIMOR\_ECK, DIMOR \_FRU and DIMOR\_ECC, respectively, as follows:

|  |  |
| --- | --- |
| Current | Proposal |
| UPOV code | Principal botanical name | Other botanical name(s) | UPOV code | Principal botanical name | Other botanical name(s) |
| OSTEO\_ECK | *Osteospermum ecklonis* (DC.) Norl. | *Dimorphotheca ecklonis* DC. | DIMOR\_ECK | *Dimorphotheca ecklonis* DC. | *Osteospermum ecklonis* (DC.) Norl. |
| OSTEO\_FRU | *Osteospermum fruticosum* (L.) Norl. | n.a. | DIMOR \_FRU | *Dimorphotheca fruticosa* (L.) DC. | *Osteospermum fruticosum* (L.) Norl. |

## UPOV code for Uncinia species

 The Office of the Union was informed of the reclassification of *Uncinia* to *Carex* species.

 The current entries in the GENIE database for certain *Uncinia* species, the taxa in GRIN and the numbers of entries in the PLUTO database, are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UPOV code | Principal botanical name in GENIE | Botanical name(s)in GRIN | Common name(s)in GENIE | Number of entries in PLUTO |
| UNCIN | *Uncinia* Pers. | *Carex* L. | n.a | 0 |
| UNCIN\_DIV | *Uncinia divaricata* Boott | *Carex edura* K. A. Ford | n.a. | 0 |
| UNCIN\_EGM  | *Uncinia egmontiana* Hamlin | *Carex egmontiana* (Hamlin) K. A. Ford | *Egmont hook sedge; Mount Egmont tussock*  | 0 |
| UNCIN\_RUB | *Uncinia rubra* Colenso ex Boott | *Carex punicea* K. A. Ford | n.a | 4 |
| UNCIN\_UNC  | *Uncinia uncinata* (L. f.) Kük. | *Carex uncinata* L. f. | n.a | 2 |

### Proposal

 The TC might wish to consider the deletion of the UPOV codes UNCIN, UNCIN\_DIV, UNCIN\_EGM, UNCIN\_RUB and UNCIN\_UNC. *Uncinia* specieswould be covered as a synonym of *Carex* speciesunder UPOV codes CAREX, CAREX \_DIV, CAREX \_EGM, CAREX \_RUB and CAREX \_UNC, as follows:

|  |  |
| --- | --- |
| Current | Proposal |
| UPOV code | Principal botanical name | Other botanical name(s) | UPOV code | Principal botanical name | Other botanical name(s) |
| UNCIN | *Uncinia* Pers. | n.a | CAREX | *Carex* L. | *Uncinia* Pers. |
| UNCIN\_DIV | *Uncinia divaricata* Boott | n.a | CAREX \_DIV | *Carex edura* K. A. Ford | *Uncinia divaricata* Boott |
| UNCIN\_EGM  | *Uncinia egmontiana* Hamlin | n.a | CAREX \_EGM  | *Carex egmontiana* (Hamlin) K. A. Ford | *Uncinia egmontiana* Hamlin |
| UNCIN\_RUB | *Uncinia rubra* Colenso ex Boott | n.a | CAREX \_RUB | *Carex punicea* K. A. Ford | *Uncinia rubra* Colenso ex Boott |
| UNCIN\_UNC  | *Uncinia uncinata* (L. f.) Kük. | n.a | CAREX \_UNC  | *Carex uncinata* L. f. | *Uncinia uncinata* (L. f.) Kük. |

 *The TC is invited to consider the proposal 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 paragraphs 34 to 57 of this document.*

Matters for information

GENIE database

*Background*

 The GENIE database (<http://www.upov.int/genie/en/>) has been developed to provide online information on the status of protection, cooperation in examination, experience in DUS testing and existence of UPOV Test Guidelines for different GENera and specIEs (hence GENIE). The GENIE database is used to generate the relevant Council and TC documents concerning that information[[4]](#footnote-5).

 The GENIE database is the repository of the UPOV codes and provides information concerning the principal and alternative botanical names and common names of plant taxa.

*UPOV code developments*

 In 2022, 183 new UPOV codes were created. The total number of UPOV codes in the GENIE database as of December 31, 2022 was 9,525.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| New UPOV codes | 212 | 209 | 577 | 188 | 173 | 440 | 242 | 243 | 177 | 131 | 183 |
| Amendments | 5 | 47\* | 37 | 11 | 16 | 1 | 5 | 3 | 44 | 35 | 35 |
| Total UPOV Codes | 7,061 | 7,251 | 7,808 | 7,992 | 8,149 | 8,589 | 8,844 | 9,077 | 9,213 | 9,342 | 9,525 |

\* including changes to UPOV codes resulting from the amendment of the “Guide to the UPOV Code System” concerning hybrids (see document TC/49/6).

*TWP checking*

 Section 3.3 of the “Guide to the UPOV Code System” provides the following:

“Amendments to UPOV codes will be handled by the same procedure as the introduction of new UPOV codes […]. However, in addition, all members of the Union and contributors of data to the Plant Variety Database will be informed of any amendments”.

 In accordance with the procedure set out in Section 3.3 of the Guide to the UPOV Code System, the Office of the Union prepared tables of UPOV code additions and amendments, for checking by the relevant authorities, for each of the Technical Working Party (TWP) sessions in 2023.

 Experts of the Technical Working Party for Vegetables (TWV), Technical Working Party for Ornamental Plants and Forest Trees (TWO), Technical Working Party for Agricultural Crops (TWA) and Technical Working Party for Fruit Crops (TWF) are invited to check the amendments, new UPOV codes or information, and UPOV codes used in the PLUTO database for the first time, as reproduced in the Annexes to document TWP/7/7 “UPOV information and databases” and submit comments to the Office of the Union by December 31, 2023.

Previously agreed amendments to UPOV codes

 Section 4.3 (d) of the “Guide to the UPOV Code System” provides the following:

“Amendments to UPOV codes will be handled by the same procedure as the introduction of new UPOV codes […]. However, in addition, all members of the Union and contributors of data to the Plant Variety Database will be informed of any amendments”.

 On the basis of the conclusions at the TC, at its fifty-seventh session, on the matters presented in the following sections, members of the Union and contributors of data to the PLUTO database will be informed of the changes and the date of the changes by means of a Circular in advance. Contributors of data to the PLUTO database will be requested to use the amended UPOV codes when submitting their plant variety data to the Office of the Union.

### UPOV codes for Citrus

 On the basis of the conclusions at the TC, the UPOV code CITRU\_AUM will be amended to append information to create groups “1MA” for mandarins and “2OR” for oranges, as following.

|  |  |
| --- | --- |
| Old  | New |
| Entries in PLUTO | TG | UPOV Code | Principal botanical name | Other botanical name(s) | UPOV Code | Principal botanical name | Other botanical name(s) |
|  10 | TG/202 | CITRU\_AUM | *Citrus aurantium* L. | n.a. | CITRU\_AUM**\_1MA**CITRU\_AUM**\_2OR** | Citrus ×*aurantium* L. | *Citrus* *amara* Link; *Citrus* *bigarradia* Loisel.; *Citrus* *intermedia* hort. ex Tanaka; *Citrus* *taitensis* Risso; *Citrus* *vulgaris* Risso; *Citrus* ×*aurantium* subsp. *aurantium* L.; *Citrus* ×*aurantium* subsp. *jambiri* Engl.; *Citrus* ×*aurantium* subsp. *keonla* Engl.; *Citrus* ×*aurantium* subsp. *suntara* Engl.; *Citrus* ×*aurantium* var. *aurantium* L.; *Citrus* ×*aurantium* var. *citrina* Lush.; *Citrus* ×*bigarradia* var. *volkameriana* Risso; *Citrus* ×*clementina* hort. ex Tanaka; *Citrus* ×*crenatifolia* Lush.; *Citrus* *reticulata* × C. *maxima* |
|  115 | TG/201 | CITRU\_CLE | *Citrus clementina* hort. ex Tanaka | n.a. |
|  1 | / | CITRU\_MRE | *Citrus maxima* X *Citrus reticulata* | n.a. |
|  0 | TG/201 | CITRU\_CRE | *Citrus crenatifolia* Lush. | n.a. |
|  0 | TG/204 | CITRU\_INT | *Citrus intermedia* hort. ex Tanaka | n.a. |

 The UPOV codes CITRU\_CLE, CITRU\_MRE, CITRU\_CRE, CITRU\_INT, CITRU\_AUR, CITRU\_DAV, CITRU\_EXC, CITRU\_KER, CITRU\_BAL and CITRU\_KAR and CITRU\_BEN will be deleted.

[End of document]

1. TWO, fifty-fifth session, held via virtual means, from June 12 to 16, 2023 [↑](#footnote-ref-2)
2. TWV, fifty-seventh session, held at Antalya, Türkiye, from May 1 to 5, 2023 [↑](#footnote-ref-3)
3. TWV, fifty-seventh session, held at Antalya, Türkiye, from May 1 to 5, 2023 [↑](#footnote-ref-4)
4. See documents C/[session]/INF/6 “List of the taxa protected by the members of the Union; C/[session]/INF/5 “Cooperation in Examination”; TC/[session]/INF/4 “List of genera and species for which authorities have practical experience in the examination of distinctness, uniformity and stability”; and TC/[session]/2 “Test Guidelines”. [↑](#footnote-ref-5)