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UPOV

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

TECHNICAL COMMITTEE

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UPOV INFORMATION DATABASES

Document prepared by the Office of the Union

1. The purpose of this document is to provide an update on developments concerning the UPOV Code System, the GENIE database (GENIE) and the Plant Variety Database (UPOV-ROM).

Abbreviations

CAJ:	Administrative and Legal Committee
TC:	Technical Committee
TC-EDC:	Enlarged Editorial Committee
TWP:	Technical Working Party
TWA:	Technical Working Party for Agricultural Crops
TWC:	Technical Working Party on Automation and Computer Programs
TWF:	Technical Working Party for Fruit Crops
TWO:	Technical Working Party for Ornamental Plants and Forest Trees
TWV:	Technical Working Party for Vegetables
WG-PVD:	*Ad hoc* Working Group on the Publication of Variety Descriptions
WG-VD:	*Ad hoc* Working Group on Variety Denominations

UPOV CODE SYSTEM

2. The TC, at its fortieth session held in Geneva from March 29 to 31, 2004, agreed to the inclusion of UPOV codes in GENIE on the basis of document TC/40/6-CAJ/49/4. However, the TC noted that there were certain codes which required checking before their inclusion and that further consideration of coding of intergeneric and interspecific hybrids and "multiple ranked names" was required before the completion of GENIE could be achieved. The developments with regard to those and other aspects of the UPOV Code System are explained below.

Checking of Codes

3. With regard to those UPOV codes which still required to be checked before inclusion in GENIE, the TC agreed that these should be checked by the appropriate TWP during their sessions in 2004. The TWPs agreed that the checking of the codes should be undertaken by the authorities which had contributed data to UPOV concerning the genera and species concerned. To aid the experts in the checking of these codes, the Office of the Union (the Office) provided an Excel spreadsheet containing all UPOV codes in which the codes to be checked by each expert were highlighted. The Office also clarified the type of checking which was required by the experts. The TWPs agreed that the experts should submit their comments by October 8, 2004, in order that the checked codes could be incorporated in GENIE, which was used for the generation of Council documents C/38/5 "Cooperation in examination" and C/38/6 "List of the taxa protected in the member States of UPOV and in the States and organizations that have initiated the procedure for acceding to UPOV and which have provided information".

4. Subsequent to the checking of the codes by the TC and TWPs in 2004, there has been a need to introduce some new codes and also to amend certain codes (see also paragraph 16). In accordance with the procedure for the introduction and amendment of codes as agreed by the TC at its fortieth session, reproduced as Annex I to this document, those codes will be presented to the relevant TWP(s), as indicated in Annex II, for their consideration. Annex II is presented in two parts. Part A is a report on the changes made to the UPOV codes and names in GENIE before an automatic report was introduced into GENIE in February 2005. Part B is the report of changes made since February 1, 2005, using the automatic report facility in GENIE; this is the format which will be used for reporting all future amendments to the UPOV codes and names.

Intergeneric and Interspecific Hybrids

5. It was noted by some experts that breeding developments can result in intergeneric hybrids which could result in "grey areas" between genera.

6. The TC, at its fortieth session, agreed that the UPOV code should reflect the taxonomic classification. Thus, if a genus exists for a hybrid formed between two genera (e.g. Triticale), the "genus element" of the UPOV code would be based on the "hybrid" genus. Where a genus for hybrids did not exist, a code would not be created and varieties bred from two genera would be classified according to the available codes. Where confusion concerning variety denominations could arise, it would be possible to create a new variety denomination class containing, for example, two genera and hybrids between those genera.

7. Following the TC session, a further possibility to address hybrid genera (and species) was put forward by the IT expert of the World Intellectual Property Organization (WIPO) developing GENIE: A new genus (or species) formed as a hybrid between other genera (or species) would be given a new UPOV code. However, in the database, a link would be made between the parent genera (or species) and the new hybrid. Thus, when searching, it would be possible to search on a UPOV code, but to automatically receive the results on all related codes:

Example: Hybrid genus formed between *Carlus x Phillipus*

Genus	UPOV Code
Carlus	CARLU_(*linked to* CAPHI_)
Phillipus	PHILL_(*linked to* CAPHI_)
Carlus x Phillipus	CAPHI_(*linked to* CARLU_ *and* PHILL_)

A search on "CARLU" *(Carlus*) would automatically provide all varieties of Carlus and the hybrid genus *Carlus x Phillipus*. A search on "PHILL" *(Phillipus)* would automatically provide all varieties of Phillipus and the hybrid genus *Carlus x Phillipus*. A search on "CAPHI" *(Carlus x Phillipus)* would provide all varieties of *Carlus, Phillipus* and the hybrid genus *Carlus x Phillipus*. Thus, for example, if it was the case that *Carlus* and *Phillipus* were in different variety denomination classes, the hybrid could, if required, be considered in both classes.

8. Annex III to this document provides an example of how the information on linked codes is presented in a report generated from GENIE. The relationship is shown as "parent" (e.g. CARLU and PHILL above) and "hybrid" (e.g. CAPHI above). It should be noted that the UPOV codes currently distinguish between two hybrids produced using the same parents, but with the male and female parents reversed, e.g.:

PRUNU_DPE: Prunus davidiana (PRUNU_DAV) x Prunus persica (PRUNU_PER)

PRUNU_PDA: Prunus persica (PRUNU_PER) x Prunus davidiana (PRUNU_DAV).

However, a single code could be used to cover such hybrids if required.

9. Linkages are only used for "hybrids" which are not taxonomically recognized as genera or species in their own right. Thus, Agrotriticum is a "hybrid" between Agropyron and Triticum, but it is botanically recognized and, therefore, no linkages are proposed for these codes.

10. The proposal for creating codes for hybrids which are not botanically recognized as genera or species in their own right has been considered and approved by the TWPs at their sessions in 2004 and will be the working basis for the UPOV Code System and GENIE, subject to approval by the TC.

Multiple-Ranked Names: Brassica and Beta

11. At its fortieth session, the TC noted that a proposal from the rapporteur of the ICNCP (see document TC/40/10, paragraph 15) to use a grouping system of classification for

Brassica and *Beta* appeared to have potential advantages. However, it was also noted that, until now, UPOV had not used this system in relation to naming for variety denomination classes and Test Guidelines. Nevertheless, it recognized that once the codes were adopted it would be difficult to introduce a change at a later time, and it therefore proposed that this matter should be considered by the TC before the codes were finalized. To avoid delay in finalizing the codes, it agreed that the Office, in conjunction with the chairmen of the TC, the TWA and the TWV, should develop a proposal for consideration by the TWA, the TWV and the WG-VD. If the proposal was agreed by all parties, this would be the basis for codes for *Beta* and *Brassica.* In the absence of agreement by all parties, the code would be based on the proposals presented in Annexes I and II of document TC/40/6-CAJ/49/4.

12. In accordance with that approach, an agreement was reached to base the codes on a grouping classification for part of the *Beta* and *Brassica* genera. Thus, a grouping classification will be used for codes within *Beta vulgaris* and part of *Brassica oleracea*. To indicate that a grouping classification is being used for those two species, the first letter of the third element of the code will start with "G". A summary of the structuring of the species is presented below:

UPOV CODE	*BOTANICAL NAME*	*COMMON NAME*
BETAA_VUL	**Beta vulgaris L.**	
BETAA_VUL_GV	**Beta vulgaris L. ssp. vulgaris**	**Beet**
BETAA_VUL_**G**VA	Beta vulgaris L. ssp. vulgaris var. alba DC.	Fodder beet
BETAA_VUL_**G**VC	Beta vulgaris L. ssp. vulgaris var. conditiva Alef.	Beetroot
BETAA_VUL_**G**VF	Beta vulgaris L. ssp. vulgaris var. flavescens DC.	Leaf beet
BETAA_VUL_**G**VS	Beta vulgaris L. ssp. vulgaris var. saccharifera Alef.	Sugar beet
BRASS_OLE_GA	**Brassica oleracea L. convar. acephala (DC.) Alef.**	**Kale**
BRASS_OLE_**G**AM	Brassica oleracea L. convar. acephala (DC.) Alef. var. medullosa Thell.	Marrow-stem kale
BRASS_OLE_**G**AR	Brassica oleracea L. var. ramosa DC.	Catjang
BRASS_OLE_**G**AS	Brassica oleracea L. convar. acephala (DC.) Alef. var. sabellica L.	Curly kale
BRASS_OLE_**G**AV	Brassica oleracea L. convar. acephala (DC.) Alef. var. viridis L.	Fodder kale
BRASS_OLE_GB	**Brassica oleracea L. convar. botrytis (L.) Alef.**	
BRASS_OLE_**G**BB	Brassica oleracea L. convar. botrytis (L.) Alef. var. botrytis	Cauliflower
BRASS_OLE_**G**BC	Brassica oleracea L. convar. botrytis (L.) Alef. var. cymosa Duch.	Broccoli
BRASS_OLE_GC	**Brassica oleracea L. convar. capitata (L.) Alef. var. capitata (L.) Alef.**	**Cabbage**
BRASS_OLE_**G**CA	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. alba DC.	White cabbage
BRASS_OLE_**G**CR	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. rubra (L.) Thell.	Red cabbage
BRASS_OLE_**G**CS	Brassica oleracea L. convar. capitata (L.) Alef. var. sabauda L.	Savoy cabbage
BRASS_OLE_GGM	**Brassica oleracea L. convar. oleracea var. gemmifera DC.**	**Brussels sprout**
BRASS_OLE_GGO	**Brassica oleracea L. convar. acephala (DC.) Alef. var. gongylodes L.**	**Kohlrabi**

Variety Types

13. Whilst developing GENIE, it has become apparent that it may be useful to be able to identify types within a genus or species. Thus, for example in the case of apple, there are separate Test Guidelines for fruit varieties (TG/14), for rootstock varieties (TG/163) and for ornamental varieties (TG/192). Also, when reporting for document TC/41/4 "List of species in which practical knowledge has been acquired or for which national test guidelines have been established", authorities sometimes indicate that their experience only relates to certain types of variety. The basis of the UPOV code is a "vertical" botanical classification and, therefore, the UPOV code is limited in its scope to differentiate, in a "horizontal" way, types of variety (e.g. fruit varieties and ornamental varieties) which have the same botanical classification. However, it is possible to provide notes indicating this additional information and it would also be possible within GENIE to identify such "types" within a code. Thus, if types are created within a UPOV code within GENIE, it would be possible to search "MALUS" for all information related to apple, but also to refine the search, for example for all information which is specifically indicated as relating to fruit varieties only. That facility could also be incorporated into the web-based version of the Plant Variety Database, although it will not be possible for it to be incorporated into the current CD-ROM version. The Office is currently evaluating whether it would be most appropriate simply to provide notes in relation to certain information, or whether to create the facility to identify types within a UPOV code in GENIE and will report on its considerations at the forty-first session of the TC.

Program for Introduction of UPOV Codes

14. The TC agreed, at its fortieth session, that members of the Union and other contributors should be encouraged to start to use the UPOV codes when contributing data to the UPOV-ROM as soon as GENIE was made available on the UPOV website and agreed that, in the first instance, such use would be optional.

15. The prototype GENIE has been developed and is being used within the UPOV Office, but it is not envisaged that it will be launched on the UPOV website before the end of 2005, for the reasons explained below (see paragraph 22). However, the necessary information on UPOV codes is already available and could be presented on the UPOV website for use by contributors to the UPOV-ROM. A test-run has been undertaken with the Community Plant Variety Office (CPVO) as a part of the cooperation in the development and maintenance of the UPOV web-based Plant Variety Database and the CPVO Centralized Database on Variety Denominations ("the CPVO variety denomination database") (see paragraphs 23 and 24 below).

16. A list of codes together with the relevant botanical and common names was supplied to the CPVO on November 23, 2004, for use in the development of the CPVO variety denomination database. The CPVO requested that, for future lists, the principal botanical name, used as the basis for the UPOV code, and the variety denomination class for each UPOV code should also be provided. In February 2005, after having checked the list of codes in the November list, the CPVO identified some further 90 genera or species which were not included in GENIE. Codes for those genera and species were introduced in GENIE and are included in Annex II, Part B. A new extract was made from GENIE and sent to the CPVO with the following information provided in the form of Excel spreadsheets:

Spreadsheet 1: UPOV code list (one line per UPOV code)

UPOV code	*Principal Botanical Name*	*Variety Denomination Class*
ABELI	Abelia R. Br.	ABELI
ABELI_GRA	Abelia x grandiflora Rehder	ABELI
ABELM	Abelmoschus	ABELM
ABELM_ESC	Abelmoschus esculentus (L.) Moench	ABELM
ABIES	Abies Mill.	Class 19
ABIES_ALB	Abies alba Mill.	Class 19
etc.		

Spreadsheet 2: Full list of names by UPOV code

UPOV code	*Language*	*Name*
ABELI	Latin	Abelia R. Br.
ABELI	English	Abelia
ABELI	French	Abelia
ABELI	German	Abelia
ABELI	Spanish	Abelia
ABELI_GRA	Latin	Abelia x grandiflora Rehder
ABELM	Latin	Abelmoschus
ABELM_ESC	Latin	Abelmoschus esculentus (L.) Moench
ABELM_ESC	Latin	Hibiscus esculentus L.
ABELM_ESC	English	Gombo
ABELM_ESC	French	Ambrette
ABELM_ESC	German	Okra
ABELM_ESC	Spanish	Okra
etc.		

Spreadsheet 3: Hybrid and linked codes

Hybrid UPOV Code	*Parent UPOV Code*
AMARA_HCR	AMARA_CRU
AMARA_HCR	AMARA_HYP
BORON_HME	BORON_HET
BORON_HME	BORON_MEG
BRCHY_ACU	BRCHY_ASC
BRCHY_ACU	BRCHY_CUR
etc.	

17. A summary of changes to the previous version was also provided. In addition to the spreadsheets above, which are intended to provide data in a manageable form for downloading into a database, two consolidated reports of the same information were prepared in pdf format for general reference. An extract of these reports is presented as Annex IV.

18. It is proposed that, subject to the agreement of the TC and the CAJ, the spreadsheets and the pdf reports, as set out above, will be posted on the first restricted area of the UPOV website. Contributors to the UPOV-ROM would be notified by e-mail each time the information is updated and would be able to download the revised complete spreadsheets or the changes to the previous versions. Contributors could then use that information to include the UPOV codes when submitting data to the UPOV-ROM.

19. It is recognized that some contributors may wish to receive assistance in the process of introducing UPOV codes for their UPOV-ROM data. The Office is currently assessing two possible forms of assistance:

(a) Initial assistance

At the point at which a contributor indicates their intention to start using the UPOV code in their UPOV-ROM data, the Office would take the most recent batch of data provided by the contributor concerned (initial batch) and return that data to the contributor with the relevant UPOV codes. For future submission, the contributor would only have to identify the UPOV codes for genera and species not already provided with a code in the initial batch.

(b) Full assistance

The contributor would continue submitting data without the UPOV code. The Office would attribute all the relevant UPOV codes on receiving the data.

20. The scope for the Office to provide the type of assistance set out above will depend on the number of contributors requesting such assistance and the success of the Office in finding ways to automate the allocation of UPOV codes to the data it receives. The Office will report on progress in automating the allocation of codes at the forty-first session of the TC and fifty-first session of the CAJ. It would be very helpful, at that stage, if contributors could indicate what, if any, assistance they would require in introducing UPOV codes when submitting their data for the UPOV-ROM.

GENIE

21. It is recalled that GENIE is being developed to provide, for example, online information on the status of protection (see document C/38/6), cooperation in examination (see document C/38/5), experience in DUS testing (see document TC/41/4), and existence of UPOV Test Guidelines (see document TC/41/2) for different GENera and specIEs (hence GENIE), and will also be used to generate the relevant Council and TC documents concerning that information. In addition, GENIE is the repository of the UPOV codes and will be used to provide the botanical names, common names and variety denomination class for the purposes of the Plant Variety Database.

22. The prototype GENIE in Microsoft Access format has now been populated with all available UPOV codes and corresponding information relating to the documents mentioned in paragraph 21 except, as of January 31, 2005, the information concerning relevant Test Guidelines (document TC/41/2). Initially, the intention was to launch GENIE on the UPOV website at this stage. However, because there are so many types of information contained within GENIE, it has become apparent that the design of the user interface (e.g. site navigation, query options, printable reports, downloads, etc.) is very important for its usability. It is also recognized that it would be very difficult to make any further modifications once the web-based version of GENIE has been designed and implemented. Therefore, an advanced prototype, mimicking a web-based version, is being developed and evaluated within the UPOV Office for its suitability in response to requests for information received in the Office, before a commitment is made to the design of the web-based version. It is planned that a prototype will be demonstrated at the forty-first session of the TC and fifty-first session of the CAJ. Any comments or suggestions regarding the design will be taken into account before the design of the web-based version is finalized.

PLANT VARIETY DATABASE

23. At the fortieth session of the TC and forty-ninth session of the CAJ (see document TC/40/6–CAJ/49/4), it was explained that a factor which had been taken into account in the program to improve the Plant Variety Database was the project for a centralized database on variety denominations being undertaken by the CPVO. That project is intended to develop a web-based database for variety denomination examination purposes, but relies on a database of information which should be essentially the same as that of the UPOV Plant Variety Database. It was recognized that there would be mutual benefit if both parties cooperated in the work. In that regard, it was reported that a Memorandum of Understanding was under development for cooperation in the development and maintenance of a UPOV web-based Plant Variety Database and the CPVO variety denomination database in a way which would minimize the overall cost of development of software and maintenance of data, maximize the completeness of the UPOV and CPVO databases, and secure compatibility of both databases.

24. Some of the key aspects of the Memorandum of Understanding, which was signed in October 2004, are as follows:

(a) Database Software

In the first instance, CPVO will provide UPOV (“the Parties”) with its proposed database model and data dictionary. In the second instance, UPOV will offer initial comments and suggestions with regard to compatibility of the software for the UPOV database. Subsequent collaboration between the Parties in any refinement to the CPVO proposal will take the form of meetings and/or exchange of correspondence as considered appropriate by the Parties. Following this process, CPVO will develop its database software. The database software that CPVO decides to use and release (the “CPVO software”) will, subject to certain conditions, be offered to UPOV free of charge. CPVO will inform UPOV of subsequent updates of the CPVO software. UPOV will advise CPVO on whether it wishes to use the CPVO software or whether it will develop its own software (the “UPOV software”). If UPOV decides to develop its own software, it will provide CPVO with its proposed database model and data

dictionary in order to seek comments and suggestions with regard to compatibility of the software for the CPVO database.

(b) Maintenance of Data

The responsibility for providing data would be as follows:

(i) subject to the agreement of the countries and owners of other registers concerned, CPVO is to be responsible for variety denomination data for all official registers kept by authorities of the Member States of the European Union, official registers kept by authorities of the European Economic Area (EEA) and Switzerland, the European Union Common Catalogues and other relevant registers, such as the Dutch database PLANTSCOPE;

(ii) UPOV is to be responsible for variety denomination data for all official registers kept by authorities of members of the Union which are not mentioned in (i). UPOV is also to be responsible for data from international organizations (e.g. Organisation for Economic Co-operation and Development (OECD)); and

(iii) for other data, to be agreed by the Parties on a case-by-case basis.

(c) Use of Data by UPOV and CPVO

UPOV will retain the possibility of charging parties other than UPOV members and contributors to the database ("third party users") for the use of any future database. The use of the CPVO database will be restricted to checking variety denominations for compliance with the requirements of the Community Plant Variety Rights (CPVR) system. In the first instance, use will be confined to contributors of data, comprising CPVO, national authorities and other data providers (e.g. PLANTSCOPE). However, it is possible that, in future, other parties, including breeders, would be granted use of the database. CPVO will retain the possibility of providing the database not only to contributors to the database but also to third party users, free of charge.

(d) Access to Raw Data for Third Parties

The UPOV policy is that raw data will be available to members of the Union and contributors of data, but will not be available to other parties. The CPVO policy is that raw data will be available to the relevant authorities of the Member States of the European Union and other organizations contributing data, but will not be available to other parties.

(e) Creation of UPOV Codes for "New" Species in the Database

UPOV is responsible for the creation and maintenance of UPOV codes and will develop a procedure for the introduction and maintenance of codes in a timely way.

25. At the fortieth session of the TC and forty-ninth session of the CAJ, the Office reported that it would present an initial prototype of its web-based Plant Variety Database at the forty-first session of the TC and fifty-first session of the CAJ, together with proposals concerning the fields to be included and proposals for which fields might be considered to be mandatory. The TC considered that the matter of frequency of updating of the web-based

Plant Variety Database should be considered in conjunction with the presentation of the prototype and that consideration of the establishment of links to relevant websites for variety denomination checking purposes could also be considered at that time. In relation to the possibilities for manual inputting of data from printed gazettes, the TC noted that improving the ease of contributing data was likely to increase the number of countries contributing data and that it would be appropriate to assess the need for manual input of data at a later stage.

26. The TC, at its fortieth session, and the CAJ, at its forty-ninth session, further agreed that, in the light of developments concerning a web-based Plant Variety Database, the planned short-term improvements to the UPOV-ROM should not be pursued. However, it was agreed that training for the purposes of contributing data to the Plant Variety Database and for its use should go ahead. The Office explained that the UPOV-ROM would continue to be produced on the current basis and that, for some users, a CD-ROM media may offer advantages compared to a web-based system. The Office confirmed that it would not discontinue the production of the UPOV-ROM without further consultation.

27. In response to the discussions at the fortieth session of the TC and forty-ninth session of the CAJ, in particular, the wish that the Plant Variety Database should continue to be produced in its current UPOV-ROM format for the foreseeable future, even if a web-based version is developed alongside, the Office has reviewed its planned program. Instead of focussing work on the development of the new web-based media, priority has been focussed on improvements which can equally be realized in the UPOV-ROM format, namely:

(a) introduction of the UPOV code: proposals are set out in paragraph 18 above;

(b) improving the ease of contributing data to the UPOV-ROM: the Office is developing a data submission table which will provide all the necessary information for the UPOV-ROM without the use of TAG format. As soon as that table is finalized, contributors will be informed and the table will be provided on the first restricted area of the UPOV website;

(c) providing training in the use of the UPOV-ROM: Information on the use of the UPOV-ROM and how to contribute data is now being included in the Workshop on Data Handling, which is occasionally offered in conjunction with the TWC sessions. A copy of the lecture provided at the workshop held in Beijing from June 9 to 11, 2004, can be found on the UPOV website at: http://www.upov.int/en/publications/pdf/upov_data_bei_04_11.pdf.

28. The schedule for the development of an initial prototype of the web-based Plant Variety Database will depend on the resources needed to advance the three priorities set out above. In particular, the level of assistance needed for contributors in relation to the introduction of the UPOV code will determine how quickly it will be possible to start working on the web-based Plant Variety Database. If possible, a prototype will be presented at the forty-second session of the TC and the fifty-third session of the CAJ, together with proposals concerning the fields to be included and proposals for which fields might be considered to be mandatory, as requested by the TC at its fortieth session. The frequency of updating of the web-based Plant Variety Database will be considered in conjunction with the presentation of the prototype together with consideration of the establishment of links to relevant websites for variety denomination checking purposes.

29. The TC is invited to:

(a) note that the relevant TWP(s) will be invited to check amendments to the codes in GENIE, as set out in Annex II (see paragraph 4);

(b) approve the proposals for UPOV codes in relation to intergeneric and interspecific hybrids, as set out in paragraphs 7 to 10;

(c) approve the proposals for UPOV codes on the basis of groups within Beta vulgaris *and part of* Brassica oleracea*, as set out in paragraph 12;*

(d) note that the Office will report on its considerations in relation to providing information in relation to different types of variety within the same UPOV code, as set out in paragraph 13;

(e) consider the proposals for making the UPOV codes available for use by contributors to the UPOV-ROM by their publication on the UPOV website, as set out in paragraph 18;

(f) note that the Office will report to the forty-first session of the TC on the possibilities for automation of UPOV code allocation to UPOV-ROM data, as explained in paragraph 20;

(g) invite contributors to the UPOV-ROM to comment on what, if any, assistance they would require in introducing UPOV codes when submitting their data, as set out in paragraph 20;

(h) note the program for launching GENIE on the UPOV website as set out in paragraph 22;

(i) comment on the proposed program for the improvement of the Plant Variety Database, as set out in paragraphs 27 and 28.

[Annex I follows]

ANNEX I

PROCEDURE FOR THE INTRODUCTION AND AMENDMENT OF UPOV CODES

The Technical Committee at its fortieth session, held in Geneva from March 29 to 31, 2004 (see document TC/40/10, paragraph 17) agreed to the following procedure for the introduction and amendment of codes:

(1) Responsibility for the UPOV Code System

The Office is responsible for the UPOV Code System and the individual codes.

(2) Repository of UPOV Codes

The definitive collection of UPOV codes exists exclusively in the GENIE database.

(3) Introduction of New UPOV Codes / Amendments to UPOV Codes

(a) In the first instance, the Office will draft a code on the basis of the Germplasm Resources Information Network (GRIN) database, or other suitable references if the species concerned are not included in the GRIN database.

(b) Where the Office is aware of relevant experts for the genus or species concerned, or is advised of such experts, for example by the proposer of a new code, it will, wherever possible, check its proposals with those experts before creating the code.

(c) New codes might be proposed by any party, but it is expected that the majority of proposals will be made by contributors to the Plant Variety Database. Where the Office receives such proposals, it will respond by updating the GENIE database with the new codes in a timely manner and, in particular, will seek to ensure that new codes are available to allow their use for the forthcoming edition of the Plant Variety Database. In addition, the Office will add new codes where it identifies a need.

(d) In general, amendments to 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 UPOV recommendations on variety denominations are based on the general principle that, unless the list of classes applies, all taxonomic units which belong to the same genus are closely related. Therefore, it is important that the first element of the code can be used to sort species into the correct genus. The codes will also be amended if there are consequences for the content of a variety denomination class where the list of classes applies. Amendments to UPOV codes will be handled by the same procedure as the introduction of new codes as in paragraphs (a) and (b), above. However, in addition, all members of the Union and contributors of data to the Plant Variety Database will be informed of any amendments.

(e) New and amended codes will be presented to the relevant TWP(s) for comment at their first available session. If the TWP recommends any change, this will be treated as an amendment according to paragraph (d), above.

(4) Updating of Information Linked to UPOV Codes

(a) UPOV codes might need to be updated to take account of, for example, changes in taxonomic classification, new information on common names, etc. In the case of changes of taxonomic classification, this might, although it is emphasized that this is not necessarily the case (see section (3)(d), above), result in a need to change the UPOV code. In such cases, the procedure is as explained in section (3), above. In other cases, the Office will amend the information linked to the existing code as appropriate.

(b) The TC, the TWPs and individual communications from members and observers of these bodies will be the principal routes by which the Office will update its information.

[Annex II follows]

ANNEX II - Part A

CHANGES MADE TO THE CODES AND NAMES IN GENIE
(before an automatic report facility was introduced into GENIE in February 2005)

Modif-ication	Modific-ation ref.	Checking TWP				Checking Country	Denom. class	Parent codes	UPOV Code		Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
		TWA	TWF	TWO	TWV										
				TWO		AU, GB, NZ, QZ, RU, US			OPHIO_JAB		Ophiopogon jaburan (Siebold) G. Lodd.				
				TWO		AU, GB, NZ, QZ, RU, US			OPHIO_JAB		Slateria jaburan Siebold				
original	mod 1(a)			TWO		AU, GB, NZ, QZ, RU, US			LIRIP_		Liriope gigantea				
modified	mod 1(a)			TWO		AU, GB, NZ, QZ, RU, US			OPHIO_JAB		Liriope gigantea				
original	mod 1(b)			TWO		AU, GB, NZ, QZ, RU, US			LIRIP_		Liriope gigantean				
modified	mod 1(b)			TWO		AU, GB, NZ, QZ, RU, US			OPHIO_JAB		Liriope gigantean				
new	new 1			TWO		AU, GB, NZ, QZ, RU, US			LIRIP_SPI		Liriope spicata (Thunb.) Lour.	creeping liriope			
new	new 2			TWO		CA, GB, QZ			MECAR_		Mecardonia Ruiz et Pav.				
new	new 3			TWO		GB, JP, QZ			SAXIF_ARE		Saxifraga × arendsii Engl.				
new	new 4(a)			TWO		DE, JP, KG, QZ, RU			ABIES_SIB		Abies sibirica Ledeb.	Siberian fir	sapin de Sibérie	sibirische Tanne	
new	new 4(b)			TWO		DE, JP, KG, QZ, RU			ABIES_SIB_SEM		Abies sibirica Ledeb. subsp. semenovii (B. Fedtsch.) Farjon				
new	new 4(c)			TWO		DE, JP, KG, QZ, RU			ABIES_SIB_SEM		Abies semenovii B. Fedtsch.				
new	new 5(a)			TWO		KG, RU, US			BASSI_PRO		Bassia prostrata (L.) A. J. Scott	forage kochia			
new	new 5(b)			TWO		KG, RU, US			BASSI_PRO		Kochia prostrata (L.) Schrad.				
original	*mod 2(a)*			TWO		KG, RU, US			KOCHI_SCO		Bassia scoparia (L.) A. J. Scott				
modified	mod 2(a)			TWO		KG, RU, US			BASSI_SCO		Bassia scoparia (L.) A. J. Scott	burningbush, kochia, Mexican firebrush, Mexican fireweed, mock cypress, summer-cypress		Besenkraut	mirabel
original	mod 2(b)			TWO		KG, RU, US			KOCHI_SCO	*	Kochia scoparia (L.) Schrad.	Belvedere Summer Cypress	Kochia	Besenkraut, Besensommerzypresse	Mirabel, Ciprés de verano
modified	mod 2(b)			TWO		KG, RU, US			BASSI_SCO	*	Kochia scoparia (L.) Schrad.	Belvedere Summer Cypress	Kochia	Besenkraut, Besensommerzypresse	Mirabel, Ciprés de verano
new	new 6		TWF			KG, All			MALUS_SIE		Malus sieversii (Ledeb.) M. Roem.				
new	new 7			TWO		AU, CA, DE, GB, KG, NL, PL, QZ, RU, US			PICEA_SCH		Picea schrenkiana Fisch. & C. A. Mey.	Asian spruce, Schrenk spruce			

Modif-ication	Modific-ation ref.	Checking TWP				Checking Country	Denom. class	Parent codes	UPOV Code		Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
		TWA	TWF	TWO	TWV										
new	new 8(a)		TWF			KG, All			PRUNU_CSF_DIV		Prunus cerasifera Ehrh. var. divaricata (Ledeb.) L. H. Bailey				
new	new 8(b)		TWF			KG, All			PRUNU_CSF_DIV		Prunus sogdiana Vassilcz.				
new	new 9(a)			TWO		NL, SG			MOKAR_		Mokara				
new	new 9 (b)			TWO		NL, SG			MOKAR_		Arachnis x Ascocentrum x Vanda				
new	new 10			TWO		NL, SG			ARAND_		× Aranda Hort.				
new	new 11			TWO		NL, SG			ARANT_		× Aranthera Hort.				
new	new 12			TWO		NL, SG			RENTD_		× Renantanda Hort.				
new	new 13			TWO		AU, SG			ANUBI_		Anubias Schott				
new	new 14(a)		TWF		TWV	JO			TRCOS_CUC_ANG		Trichosanthes cucumerina L. var. anguina (L.) Haines	club gourd, serpent gourd, serpent-cucumber, snake gourd, viper's gourd			
new	new 14(b)		TWF		TWV	JO			TRCOS_CUC_ANG		Trichosanthes anguina L.				
new				TWO		AU, CA, DE, GB, JP, NZ, PL, QZ, RU, SK, UA, US, ZA			XEROC_BRA		Xerochrysum bracteatum (Vent.) Tzvelev	golden everlasting, paper-flower, strawflower, yellow paper daisy			
original	mod 3(a)			TWO		AU, CA, DE, GB, JP, NZ, PL, QZ, RU, SK, UA, US, ZA			HLCRS_BRA		Bracteantha bracteatum (Vent.) Anderb. et Haegi				
modified	mod 3(a)			TWO		AU, CA, DE, GB, JP, NZ, PL, QZ, RU, SK, UA, US, ZA			XEROC_BRA		Bracteantha bracteatum (Vent.) Anderb. et Haegi				
original	mod 3(b)			TWO		AU, CA, DE, GB, JP, NZ, PL, QZ, RU, SK, UA, US, ZA			HLCRS_BRA	*	Helichrysum bracteatum (Vent.) Andrews	Everlasting	Immortelle à bractées	Gartenstroh-blume	Siempreviva, Perpetua
modified	mod 3(b)			TWO		AU, CA, DE, GB, JP, NZ, PL, QZ, RU, SK, UA, US, ZA			XEROC_BRA	*	Helichrysum bracteatum (Vent.) Andrews	Everlasting	Immortelle à bractées	Gartenstroh-blume	Siempreviva, Perpetua
				TWO		AR, CA, GB, HU, JP, KR, NZ, QZ, SK, US, UY, ZA			IPOMO_PUR		Pharbitis purpurea (Roth) Bojer				
original	mod 4(a)			TWO		AR, CA, GB, HU, JP, KR, NZ, QZ, SK, US, UY, ZA			IPOMO_PRP	*	Ipomoea purpurea (L.) Roth	Common Morning Glory	Ipomée volubilis	Purpurwinde	Dondiego de día
modified	mod 4(a)			TWO		AR, CA, GB, HU, JP, KR, NZ, QZ, SK, US, UY, ZA			IPOMO_PUR	*	Ipomoea purpurea (L.) Roth	Common Morning Glory	Ipomée volubilis	Purpurwinde	Dondiego de día
original	mod 4(b)			TWO		AR, CA, GB, HU, JP, KR, NZ, QZ, SK, US, UY, ZA			IPOMO_PRP		Ipomoea hirsutula J. Jacq.				
modified	mod 4(b)			TWO		AR, CA, GB, HU, JP, KR, NZ, QZ, SK, US, UY, ZA			IPOMO_PUR		Ipomoea hirsutula J. Jacq.				

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		TWA	TWF	TWO	TWV										
			TWF			AU, FR, IL, NL, QZ, US, ZA			MUSAA_ACU	*	Musa acuminata Colla	Banana	Bananier	Banane	Banano, Plátano
original	mod 5		TWF			AU, FR, IL, NL, QZ, US, ZA			MUSAA_ACU_CAV	*	Musa cavendishii Lamb.				
modified	mod 5		TWF			AU, FR, IL, NL, QZ, US, ZA			MUSAA_ACU	*	Musa cavendishii Lamb.				
new	new 15		TWF			All			PRUNU_PUM_BES		Prunus pumila L. var. besseyi (L. H. Bailey) Gleason	Bessey cherry, dwarf cherry, Rocky Mountain cherry, sand cherry, western sand cherry		Sandkirsche	
original	mod 6		TWF			All			PRUNU_BES		Prunus besseyi				
modified	mod 6		TWF			All			PRUNU_PUM_BES		Prunus besseyi L. H. Bailey				
						All			DCTLS_GLO_LOB		Dactylis glomerata L. subsp. lobata (Drejer) H. Lindb.				
original	mod 7	TWA				All			DCTLS_ASC		Dactylis aschersoniana Graebn.	Cocksfoot, Orchard Grass	Dactyle	Knaulgras	Dactilo
modified	mod 7	TWA				All			DCTLS_GLO_LOB		Dactylis aschersoniana Graebn.	Cocksfoot, Orchard Grass	Dactyle	Knaulgras	Dactilo
deleted	DELETED		TWF			AU, JP, MX, NZ, PT, US			ANNON_ATE		Annona atemoya (not a species)			Atemoya	
new	new 16		TWF			MX, All			CITRU_LAT		Citrus latifolia (Yu. Tanaka) Tanaka	Bearss lime, Persian lime, Tahiti lime	limettier	persische Limette, Tahitilimette	Limón Pesa
original	mod 8				TWV	AU, NZ, QZ, UY			ACREM_		Acremonium sp.				
modified	mod 8				TWV	AU, NZ, QZ, UY			NEOTY_ACR		Neotyphodium acremonium				
new	new 17			TWO	TWV	AU, JP, NZ			ZINGI_MAC		Zingiber macradenium K. Schum.				
new	new 18			TWO		NZ			DACRD_COL		Dacrydium colensoi Hook.	silver pine			
new	new 19			TWO		NZ			DACRD_CUP		Dacrydium cupressinum Sol. ex Lamb.	red-pine, rimu			
new	new 20			TWO		NZ			DACRD_INT		Dacrydium intermedium Kirk				
new	new 21			TWO		NZ			DACRD_LAX		Dacrydium laxifolium Hook. f.	pigmy pine			
new	new 22(a)			TWO		NZ			DACRD_BID		Dacrydium bidwillii	bog pine			
new	new 22(b)			TWO		NZ			DACRD_BID		Halocarpus bidwillii (Hook. f. ex T. Kirk) C.J. Quinn	bog pine, mountain pine, tarwood			
new	new 23(a)			TWO		NZ			DACRD_BIF		Dacrydium biforme				
new	new 23(b)			TWO		NZ			DACRD_BIF		Halocarpus biformis (Hooker) C.J. Quinn 1982	Yellow pine			
new	new 24(a)			TWO		NZ			DACRD_KIR		Dacrydium kirkii	Monoao			

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		TWA	TWF	TWO	TWV										
new	new 24(b)			TWO		NZ			DACRD_KIR		Halocarpus kirkii (F. Muell. ex Parl.) C.J. Quinn 1982				
new	new 25			TWO		GB, JP, NZ			PODOC_ACU		Podocarpus acutifolius Kirk 1883	Needle-leaved totara, Westland totara			
new	new 26(a)			TWO		GB, JP, NZ			PRUMN_FER		Podocarpus ferrugineus				
new	new 26(b)			TWO		GB, JP, NZ			PRUMN_FER		Prumnopitys ferruginea (D. Don) de Laub.	miro			
new	new 27(a)			TWO		GB, JP, NZ			PODOC_CUN		Podocarpus hallii Kirk				
new	new 27(b)			TWO		GB, JP, NZ			PODOC_CUN		Podocarpus cunninghamii Colenso				
new	new 28			TWO		GB, JP, NZ			PODOC_NIV		Podocarpus nivalis Hook.	alpine totara			
new	new 29(a)			TWO		GB, JP, NZ			PRUMN_AND		Prumnopitys andina (Poepp. ex Endl.) de Laub.	lleuque			
new	new 29(b)			TWO		GB, JP, NZ			PRUMN_AND		Podocarpus spicatus Poepp.				
new	new 30			TWO		GB, JP, NZ			PODOC_TOT		Podocarpus totara G. Benn. ex D. Don	totara			
new	new 31			TWO		NZ			PSDPN_DIS		Pseudopanax discolor Kirk				
new	new 32			TWO		NZ			PSDPN_EDG		Pseudopanax edgerleyi K. Koch	raukawa			
new	new 33			TWO		NZ			PSDPN_FER		Pseudopanax ferox T. Kirk				
new	new 34			TWO		NZ			PSDPN_GIL		Pseudopanax gilliesii T. Kirk				
new	new 35			TWO		NZ			PSDPN_LES		Pseudopanax lessonii (DC.) K. Koch	houpara			
new	new 36			TWO		NZ			PSDPN_LIN		Pseudopanax linearis (Hook. f.) K. Koch				
new	new 37			TWO		DE, GB, IE, JP, KR, PL, QZ, RU, US			XNTHC_NOO		Xanthocyparis nootkatensis (D. Don) Farjon et al.	Alaska yellow-cedar, Alaska-cedar, yellow-cedar, yellow-cypress			
original	mod 9			TWO		DE, GB, IE, JP, KR, PL, QZ, RU, US			CHMCP_	*	Chamaecyparis nootkatensis (D. Don) Spach				
modified	mod 9			TWO		DE, GB, IE, JP, KR, PL, QZ, RU, US			XNTHC_NOO	*	Chamaecyparis nootkatensis (D. Don) Spach				
original	mod 10					AU, RU			ECNCL_	*	Echinochloa colona (L.) Link				
modified	mod 10					AU, RU			ECNCL_COL	*	Echinochloa colona (L.) Link	awnless barnyard grass, corn panic grass, Deccan grass, jungle ricegrass, jungle-rice, millet-rice, shama millet	blé du Dekkan	Schamahirse	pasto del arroz

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		TWA	TWF	TWO	TWV										
original	mod 11			TWO		US			EPIME_		Epimedium grandiflorum C. Morren	Barrenwort			
modified	mod 11			TWO		US			EPIME_GRA		Epimedium grandiflorum C. Morren	Barrenwort			
new	new 38			TWO		AU, BR, FR, IL, ZA			EUCAL_GLO_PSE		Eucalyptus globulus Labill. subsp. pseudoglobulus (Naudin ex Maiden) J. B. Kirkp.	bastard eurabbie, Gippsland blue gum, Victorian eurabbie			
original	mod 12			TWO		AU, BR, FR, IL, ZA			EUCAL_GLO_STJ	*	Eucalyptus saint-johnii (R. T. Baker) R. T. Baker				
modified	mod 12			TWO		AU, BR, FR, IL, ZA			EUCAL_GLO_PSE	*	Eucalyptus saint-johnii (R. T. Baker) R. T. Baker				
original	mod 13								LAUNA_	*	Launaea aspleniifolia (Willd.) Hook. f.				
modified	mod 13								LAUNA_ASP	*	Launaea aspleniifolia (Willd.) Hook. f.				
original	mod 14(a)					CA, JP, US			SAGIT_TRI	*	Sagittaria trifolia L.				
modified	mod 14(a)					CA, JP, US			SAGIT_SAG_LEU	*	Sagittaria trifolia L.				
original	mod 14(b)			TWO		CA, JP, US			SAGIT_TRI		Sagittaria sagittifolia L. subsp. leucopetala (Miq.) Hartog	Chinese arrowhead, swamp-potato, swan-potato			
modified	mod 14(b)			TWO		CA, JP, US			SAGIT_SAG_LEU		Sagittaria sagittifolia L. subsp. leucopetala (Miq.) Hartog	Chinese arrowhead, swamp-potato, swan-potato			
original	mod 14(c)			TWO		CA, JP, US			SAGIT_TRI		Sagittaria sagittifolia var. edulis Siebold ex Miq.				
modified	mod 14(c)			TWO		CA, JP, US			SAGIT_SAG_LEU		Sagittaria sagittifolia var. edulis Siebold ex Miq.				
original	mod 15(a)	TWA				AT, AU, FR, HU, IT, RU, SI, UA, US, UY			SRGHM_SUD		Sorghum ×drummondii (Steud.) Millsp. & Chase	chicken-corn, shattercane, sordan, sorghum-sudangrass,Sudan grass	sorgho du Soudan, sorgho menu	Sudangras	pasto Sudán
modified	mod 15(a)	TWA				AT, AU, FR, HU, IT, RU, SI, UA, US, UY			SRGHM_DRU		Sorghum ×drummondii (Steud.) Millsp. & Chase	chicken-corn, shattercane, sordan, sorghum-sudangrass, Sudan grass	sorgho du Soudan, sorgho menu	Sudangras	pasto Sudán
original	mod 15(b)	TWA				AT, AU, FR, HU, IT, RU, SI, UA, US, UY			SRGHM_BSU		Sorghum vulgare Pers x Sorghum sudanense Piper Stapf				
modified	mod 15(b)	TWA				AT, AU, FR, HU, IT, RU, SI, UA, US, UY			SRGHM_DRU		Sorghum vulgare Pers x Sorghum sudanense Piper Stapf				

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		TWA	TWF	TWO	TWV										
original	mod 15(c)	TWA				AT, AU, FR, HU, IT, RU, SI, UA, US, UY			SRGHM_BSU		Sorghum saccharatum x Sorghum sudanense				
modified	mod 15(c)	TWA				AT, AU, FR, HU, IT, RU, SI, UA, US, UY			SRGHM_DRU		Sorghum saccharatum x Sorghum sudanense				
original	mod 15(d)	TWA				AT, AU, FR, HU, IT, RU, SI, UA, US, UY			SRGHM_BSU		Sorghum bicolor var. sudanense				
modified	mod 15(d)	TWA				AT, AU, FR, HU, IT, RU, SI, UA, US, UY			SRGHM_DRU		Sorghum bicolor var. sudanense				
original	mod 15(e)	TWA				AT, AU, FR, HU, IT, RU, SI, UA, US, UY			SRGHM_BSU	*	Sorghum bicolor (L.) Moench* x Sorghum sudanense (Piper) Stapf	Sorghum x Sudan Grass	Sorgho x Sorgho du Soudan	Mohrenhirse x Sudangras	Sorgo x Pasto del Sudán
modified	mod 15(e)	TWA				AT, AU, FR, HU, IT, RU, SI, UA, US, UY			SRGHM_DRU	*	Sorghum bicolor (L.) Moench* x Sorghum sudanense (Piper) Stapf	Sorghum x Sudan Grass	Sorgho x Sorgho du Soudan	Mohrenhirse x Sudangras	Sorgo x Pasto del Sudán
original	mod 15(f)	TWA				AT, AU, FR, HU, IT, RU, SI, UA, US, UY			SRGHM_SUD	*	Sorghum sudanense (Piper) Stapf	Sudan Grass	Sorgho menu, Sorgho du Soudan	Sudangras	Pasto del Sudán
modified	mod 15(f)	TWA				AT, AU, FR, HU, IT, RU, SI, UA, US, UY			SRGHM_DRU	*	Sorghum sudanense (Piper) Stapf	Sudan Grass	Sorgho menu, Sorgho du Soudan	Sudangras	Pasto del Sudán
original	mod 16			TWO					SWIET_NAC	*	Swietenia macrophylla King				
modified	mod 16			TWO					SWIET_MAC	*	Swietenia macrophylla King				
new	new 39	TWA				All			VICIA_SAT_NIG		Vicia sativa L. subsp. nigra (L.) Ehrh.	black-pod vetch, narrow-leaf vetch			averijilla
original	mod 17	TWA				All			VICIA_SAT_ANG	*	Vicia angustifolia L.	Narrow-leaf Vetch		Schmalblättrige Wicke	
modified	mod 17	TWA				All			VICIA_SAT_NIG	*	Vicia angustifolia L.	Narrow-leaf Vetch		Schmalblättrige Wicke	
new	new 40			TWO		IL, JP, NL, NO, PL, QZ, US			SENEC_HER		Senecio heritieri DC				
original	mod 18(a)	TWA				All			FESTU_BRE		Festuca ovina var. duriuscula hort.				
modified	mod 18(a)	TWA				All			FESTU_BRE		Festuca ovina L. ssp. duriuscula	Reliant hard fescue		Härtlicher Schwingel	
original	mod 18(b)	TWA				All			FESTU_LEM		Festuca ovina var. duriuscula auct.				
modified	mod 18(b)	TWA				All			~~FESTU_LEM~~		~~Festuca ovina var. duriuscula auct.~~ no entry under this code				
original	mod 18(c)	TWA				All			FESTU_OVI		Festuca ovina ssp vulgaris				
modified	mod 18(c)	TWA				All			FESTU_OVI_VUL		Festuca ovina ssp vulgaris				

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		TWA	TWF	TWO	TWV										
original	mod 19(a)	TWA				AR, AT, AU, DE, IL, RU, UA, ZA			PASPA_FLA		Setaria flavida (Retz.) Veldkamp				
modified	mod 19(a)	TWA				AR, AT, AU, DE, IL, RU, UA, ZA			SETAR_FLA		Setaria flavida (Retz.) Veldkamp				
original	mod 19(b)	TWA				AR, AT, AU, DE, IL, RU, UA, ZA			PASPD_FLA	*	Paspalidium flavidum (Retz.) A. Camus				
modified	mod 19(b)	TWA				AR, AT, AU, DE, IL, RU, UA, ZA			SETAR_FLA	*	Paspalidium flavidum (Retz.) A. Camus				
						All			PELAR_PEL		Pelargonium-Peltatum-Hybridae	Ivy-leaved Pelargonium	Géranium-lierre	Efeupelargonie	-
						All			PELAR_ZON		Pelargonium-Zonale-Hybridae	Zonal Pelargonium	Géranium, Pelargonium zonale	Zonalpelargonie	
original	mod 20			TWO		All			PELAR_PEL		Pelargonium-Peltatum x P.-Zonale- Hybridae				
modified	mod 20			TWO		All		PELAR_PEL; PELAR_ZON	PELAR_PZO		Pelargonium-Peltatum x P.-Zonale- Hybridae				
		TWA				All			TRITI_AES_AES		Triticum aestivum L. subsp. aestivum	bread wheat, wheat	blé ordinaire, froment	Saatweizen, weizen	trigo, trigo blando, trigo candeal
new	new 41	TWA				All			TRITI_AES_AES		Triticum vulgare Vill.				
original	mod 21(a)	TWA				All			TRITI_AES_VUL		Triticum aestivum L. ssp. vulgare (Vill., Host) Mac Kay	Wheat, Soft Wheat, Bread Wheat	Blé tendre, Froment	Weichweizen	Trigo blando
modified	mod 21(a)	TWA				All			TRITI_AES_AES		Triticum aestivum L. ssp. vulgare (Vill., Host) Mac Kay	Wheat, Soft Wheat, Bread Wheat	Blé tendre, Froment	Weichweizen	Trigo blando
original	mod 21(b)	TWA				All			TRITI_AES		Triticum sativum Lam.				
modified	mod 21(b)	TWA				All			TRITI_AES_AES		Triticum sativum Lam.				
original	mod 22			TWO					HYDRL_VER	*	Hydrilla verticillata (L. f.) Royle				
modified	mod 22			TWO					HDRLL_VER	*	Hydrilla verticillata (L. f.) Royle				
		TWA				All			PHLEU_BER	*	Phleum bertolonii DC.	Timothy	Fléole diploïde, Petite fléole	Zwiebellieschgras	Fleo
		TWA				All			PHLEU_PRA	*	Phleum pratense L.	Timothy	Fléole des prés	Wiesenlieschgras, Timothe	Fleo de los prados
original	mod 23(a)	TWA				All			PHLEU_BER		Phleum nodosum L.	Timothy	Fléole diploïde, Petite fléole	Zwiebellieschgras	Fleo
modified	mod 23(a)	TWA				All			PHLEU_PRA		Phleum nodosum L.	Timothy	Fléole diploïde, Petite fléole	Zwiebellieschgras	Fleo
original	mod 23(b)	TWA				All			PHLEU_BER		Phleum nodosum auct., non L.				
modified	mod 23(b)	TWA				All			~~PHLEU_BER~~		~~Phleum nodosum auct., non L.~~ delete - no entry				

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		TWA	TWF	TWO	TWV										
		TWA				AU, IT, NZ, US, ZA			CYNOD_TRA		Cynodon transvaalensis Burtt Davy	African Bermuda grass, African dog's tooth grass, Florida grass, Transvaal quick			
		TWA				AU, IT, NZ, US, ZA			CYNOD_DAC	*	Cynodon dactylon (L.) Pers.	Bermuda Grass, Couch Grass	Chiendent	Bermudagras, Hundszahngras	Grama de Bermuda
new	new 42	TWA				AU, IT, NZ, US, ZA		CYNOD_TRA; CYNOD_DAC	CYNOD_TDA		Cynodon tranvaalensis x cynodon dactylon				
new	new 43	TWA				AU, IT, NZ, US, ZA			CYNOD_MAG		Cynodon ×magennisii Hurcombe	Magennis Bermuda grass			
new	new 44	TWA				AU, IT, NZ, US, ZA			CYNOD_MAG		Cynodon dactylon × Cynodon transvaalensis				
						AU, CA, FR, GB, JP, NZ, QZ, RU, UA, US, ZA			LAVAN_INT		Lavandula x burnatii Briq.				
						AU, CA, FR, GB, JP, NZ, QZ, RU, UA, US, ZA			LAVAN_INT	*	Lavandula ×intermedia Emeric ex Loisel.	Dutch lavender, lavandin	lavande bâtarde		
original	mod 24			TWO		AU, CA, FR, GB, JP, NZ, QZ, RU, UA, US, ZA		LAVAN_ANG; LAVAN_LAT	LAVAN_OLA		Lavandula hybrida reverchon				
modified	mod 24			TWO		AU, CA, FR, GB, JP, NZ, QZ, RU, UA, US, ZA		~~LAVAN_ANG; LAVAN_LAT~~	LAVAN_INT		Lavandula hybrida reverchon				
new	new 45					AU, All			MALUS_AST		Malus ×astracanica hort. ex Dum. Cours.				
original	mod 25		TWF	TWO		AU, All		MALUS_PRU; MALUS_PUM	MALUS_PPU		Malus prunifolia var. ringo x M. pumila var. paradisiaca				
modified	mod 25		TWF	TWO		AU, All		~~MALUS_PRU; MALUS_PUM~~	MALUS_AST		Malus prunifolia x M. pumila				
new	new 46					All			PRUNU_GON		Prunus ×gondouinii (Poit. & Turpin) Rehder	Duke cherry			
original	mod 26		TWF			All		PRUNU_AVI; PRUNU_CSS	PRUNU_ACS		Prunus avium x Prunus cerasus L.				
modified	mod 26		TWF			All		~~PRUNU_AVI; PRUNU_CSS~~	PRUNU_GON		Prunus avium x Prunus cerasus L.				
new	new 47		TWF			NZ, All			PYRUS_LEC		Pyrus ×lecontei Rehder				
original	mod 27		TWF			NZ, All		PYRUS_CO; PYRUS_PYR_CUL	PYRUS_CPY		Pyrus communis x P. pyrifolia				
modified	mod 27		TWF			NZ, All		~~PYRUS_CO; PYRUS_PYR_CUL~~	PYRUS_LEC		Pyrus communis x P. pyrifolia				
new	new 48			TWO		AU, DE, IT, QZ, RU, UA, US			QUERC_SCH		Quercus ×schochiana Dieck				
original	mod 28			TWO		AU, DE, IT, QZ, RU, UA, US		QUERC_PAL; QUERC_PHE	QUERC_PPH		Quercus palustris x phellos				
modified	mod 28			TWO		AU, DE, IT, QZ, RU, UA, US		~~QUERC_PAL; QUERC_PHE~~	QUERC_SCH		Quercus palustris x phellos				

Modif-ication	Modific-ation ref.	Checking TWP				Checking Country	Denom. class	Parent codes	UPOV Code		Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
		TWA	TWF	TWO	TWV										
new	new 49			TWO		AU, DE, GB, NL, NZ, QZ, RU, US			ROBIN_MAR		Robinia ×margaretta Ashe				
original	mod 29			TWO		AU, DE, GB, NL, NZ, QZ, RU, US		ROBIN_HIS; ROBIN_PSE	ROBIN_HPS		Robinia hispida x pseudoacacia				
modified	mod 29			TWO		AU, DE, GB, NL, NZ, QZ, RU, US		~~ROBIN_HIS; ROBIN_PSE~~	ROBIN_MAR		Robinia hispida x pseudoacacia				
new	new 50			TWO		KR			NEOFI_		Neofinetia Hu				
original	mod 30			TWO		KR			NEOFI_		Neofinetia falcata (Thunb.) Hu				
modified	mod 30			TWO		KR			NEOFI_FAL		Neofinetia falcata (Thunb.) Hu				
new	new 51			TWO		JP			EPIPH		Epiphyllum Haw.				
new	new 52			TWO		JP			EPIPH_PHY		Epiphyllum phyllanthus (L.) Haw.				
				TWO		AU, DE, DK, NL, QZ, US			HATIO_		Hatiora Britten et Rose				
new	new 53			TWO		AU, DE, DK, NL, QZ, US			HATIO_		Rhipsalidopsis Britton & Rose				
new	new 54			TWO		AU, DE, DK, NL, QZ, US			HATIO_		Epiphyllopsis Backeb. & F. M. Knuth				
new	new 55	TWA				DE, All	4	AGROS_STO; AGROS_CAN	AGROS_SCA		Agrostis stolonifera L. x Agrostis canina L.				
original	mod 31(a)	TWA				All	1		TRITI_DUR	*	Triticum durum Desf.*	Durum Wheat, Macaroni Wheat, Hard Wheat	Blé dur	Hartweizen	Trigo duro
modified	mod 31(a)	TWA				All	1		TRITI_TUR_DUR	*	Triticum durum Desf.*	Durum Wheat, Macaroni Wheat, Hard Wheat	Blé dur	Hartweizen	Trigo duro
original	mod 31(b)	TWA				All	1		TRITI_DUR		Triticum turgidum ssp turgidum conv durum				
modified	mod 31(b)	TWA				All	1		TRITI_TUR_DUR		Triticum turgidum ssp turgidum conv durum				
original	mod 31(c)	TWA				All	1		TRITI_DUR		Triticum turgidum L. subsp. durum (Desf.) Husn.				
modified	mod 31(c)	TWA				All	1		TRITI_TUR_DUR		Triticum turgidum L. subsp. durum (Desf.) Husn.				
new	new 56	TWA				IT, All	1		TRITI_TUR_DIC		Triticum turgidum L. subsp. dicoccum (Schrank ex Schübl.) Thell.	emmer, emmer wheat, hulled wheat	amidonier		esaña almidora
new	new 57	TWA				IT, All	1		TRITI_TUR_DIC		Triticum dicoccum Schrank ex Schübl.				
new	new 58			TWO		CA, JP	LPHSP		LPHSP		Lophospermum D. Don				
new	new 59			TWO		CA, JP	LPHSP		LPHSP_ERU		Lophospermum erubescens D. Don	creeping-gloxinia			

Modif-ication	Modific-ation ref.	Checking TWP				Checking Country	Denom. class	Parent codes	UPOV Code	Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
		TWA	TWF	TWO	TWV									
new	new 60			TWO		CA, JP	LPHSP		LPHSP_ERU	Asarina erubescens (D. Don) Pennell				
new	new 61			TWO		CA, JP	LPHSP		LPHSP_SCA	Lophospermum scandens D. Don				
new	new 62			TWO		CA, JP	LPHSP		LPHSP_SCA	Asarina lophospermum (L.H. Bailey) Pennell				
new	new 63			TWO		CA, JP	LPHSP	LPHSP_ERU; LPHSP_SCA	LPHSP_ESC	Asarina erubescens (D. Don) Pennell x Asarina lophospermum (L.H. Bailey) Pennell				
new	new 63			TWO		CA, JP	LPHSP	LPHSP_ERU; LPHSP_SCA	LPHSP_ESC	Lophospermum erubescens D. Don x Lophospermum scandens D. Don				
new	new 64			TWO		AU	LPHST		LPHST	Lophostemon Schott				
original	mod 32			TWO		AU	LPHST		LOPHO_CON	Lophostemon confertus (R. Br.) Peter G. Wilson & J. T. Waterh.				
modified	mod 32			TWO		AU	LPHST		LPHST_CON	Lophostemon confertus (R. Br.) Peter G. Wilson & J. T. Waterh.				
new	new 65			TWO		CA	BOLTO		BOLTO_AST_LAT	Boltonia asteroides (L.) L'Hér. var. latisquama (A. Gray) Cronquist				
		TWA				AR, CA, CZ, FI, HU, JP, KG, NO, PL, RU, SE, UA, US	4		BROMU_RIP	Bromus riparius Rehmann				
		TWA				AR, CA, CZ, FI, HU, JP, KG, NO, PL, RU, SE, UA, US	4		BROMU_INE	Bromus inermis Leyss				
new	new 66	TWA				AR, CA, CZ, FI, HU, JP, KG, NO, PL, RU, SE, UA, US	4	BROMU_RIP; BROMU_INE	BROMU_RIN	Bromus riparius Rehmann x Bromus inermis Leyss				
new	new 66			TWO		AU, CA, DE, GB, JP, NL, NZ, PL, QZ, US	CLEMA		CLEMA_VIT	Clematis viticella L.				
				TWO		CA, All	DAHLI		DAHLI_PIN	Dahlia pinnata Cav.				
new	new 66			TWO		CA, All	DAHLI		DAHLI_COC	Dahlia coccinea Cav.	Red dahlia			
new	new 67(a)			TWO		CA, All	DAHLI	DAHLI_COC; DAHLI_PIN	DAHLI_CPI	Dahlia x hortensis Guillaumin	Cactus dahlia			
new	new 67(b)			TWO		CA, All	DAHLI	DAHLI_COC; DAHLI_PIN	DAHLI_CPI	Dahlia hortensis Guillaum				
new	new 67(c)			TWO		CA, All	DAHLI	DAHLI_COC; DAHLI_PIN	DAHLI_CPI	Dahlia coccinea Cav. x Dahlia pinnata Cav.				

Modif-ication	Modific-ation ref.	Checking TWP				Checking Country	Denom. class	Parent codes	UPOV Code	Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
		TWA	TWF	TWO	TWV									
new	new 68			TWO		CA	DEUTZ		DEUTZ_GRA	Deutzia gracilis Siebold & Zucc.	Japanese snowflower, slender deutsia			
new	new 68			TWO		AU, CA, GB, IL, JP, NZ, PL, QZ, US, ZA	DIASC		DIASC_INT	Diascia integerrima Benth.				
				TWO		AU, CA, GB, HU, JP, NZ, PL, QZ, SK, UA, US	ECNCE		ECNCE_PUR	Echinacea purpurea (L.) Moench				
new	new 69			TWO		AU, CA, GB, HU, JP, NZ, PL, QZ, SK, UA, US	ECNCE		ECNCE_PAR	Echinacea paradoxa (Norton) Britton				
new	new 70			TWO		AU, CA, GB, HU, JP, NZ, PL, QZ, SK, UA, US	ECNCE	ECNCE_PUR; ECNCE_PAR	ECNCE_PPA	Echinacea purpurea (L.) Moench x Echinacea paradoxa (Norton) Britton				
new	new 71			TWO		CA	GOODE		GOODE	Goodenia Sm.				
new	new 72			TWO		CA	GOODE		GOODE_OVA	Goodenia ovata Sm.				
new	new 73(a)			TWO		AU, CA, GB, JP, NL, QZ, US, ZA	HOSTA		HOSTA_TAR	Hosta tardiana Hort.				
new	new 73(b)			TWO		AU, CA, GB, JP, NL, QZ, US, ZA	HOSTA		HOSTA_TAR	Hosta x tardiana Hort.				
new	new 74			TWO		CA, QZ	LEYCE		LEYCE_FOR	Leycesteria formosa Wall.	Himalaya-honeysuckle			
				TWO		AU, CA, DE, NL, NZ, QZ, US, ZA	LYSIM		LYSIM_FOR	Lysimachia fortunei Maxim.				
				TWO		AU, CA, DE, NL, NZ, QZ, US, ZA	LYSIM		LYSIM_CLE	Lysimachia clethroides Duby				
new	new 75			TWO		AU, CA, DE, NL, NZ, QZ, US, ZA	LYSIM	LYSIM_FOR; LYSIM_CLE	LYSIM_FCL	Lysimachia fortunei Maxim. x Lysimachia clethroides Duby				
				TWO		AU, CA, IL, JP, NL, NO, NZ, QZ, US, ZA	MANDE		MANDE_AMA	Mandevilla ×amabilis (Backh. & Backh. f.) Dress				
new	new 76			TWO		AU, CA, IL, JP, NL, NO, NZ, QZ, US, ZA	MANDE		MANDE_BOL	Mandevilla boliviensis (Hook. f.) Woodson				
new	new 77			TWO		AU, CA, IL, JP, NL, NO, NZ, QZ, US, ZA	MANDE	MANDE_AMA; MANDE_BOL	MANDE_ABO	Mandevilla ×amabilis (Backh. & Backh. f.) Dress x Mandevilla boliviensis (Hook. f.) Woodson				
new	new 78			TWO		CA, QZ	NEMES		NEMES_FRU	Nemesia fruticans				

Modif-ication	Modific-ation ref.	Checking TWP				Checking Country	Denom. class	Parent codes	UPOV Code		Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
		TWA	TWF	TWO	TWV										
new	new 78			TWO		CA, All	PELAR		PELAR_DOM		Pelargonium ×domesticum L. H. Bailey	Lady Washington geranium, Martha Washington geranium, pansy-flower geranium, regal geranium, regal pelargonium, show geranium, summer-azalea			
				TWO		CA, All	PELAR		PELAR_ZON		Pelargonium zonale (L.) L'Hér.				
				TWO		CA, All	PELAR		PELAR_ZON		Pelargonium x hortorum L.H. Bailey				
new	new 79			TWO		CA, All	PELAR		PELAR_TON		Pelargonium tongaense Vorster				
new	new 80			TWO		CA, All	PELAR	PELAR_ZON; PELAR_TON	PELAR_ZTO		Pelargonium x hortorum L.H. Bailey x Pelargonium tongaense Vorster				
				TWO		AU, CA, DE, HU, IL, JP, QZ, RU, UA, US	SATUR		SATUR		Satureja				
				TWO		AU, CA, DE, HU, IL, JP, QZ, RU, UA, US	HSPRZ		HSPRZ		Hesperozygis Epling.				
new	new 81			TWO		AU, CA, DE, HU, IL, JP, QZ, RU, UA, US	SATUR		SATUR_MEX		Satureja mexicana L.				
new	new 82			TWO		AU, CA, DE, HU, IL, JP, QZ, RU, UA, US	SAHSP	SATUR; HSPRZ	SAHSP		Satureja x Hesperozygis Epling.				
new	new 83			TWO		AU, CA, DE, HU, IL, JP, QZ, RU, UA, US	SAHSP	SATUR_MEX; HSPRZ	SAHSP_MHS		Satureja mexicana L. x Hesperozygis Epling.				
new	new 84			TWO		CA, US	TAXUS		TAXUS_MED		Taxus ×media Rehder	Anglo-Japanese yew, hybrid yew			
new	new 85			TWO		GB, JP, QZ, NZ, US	TROPA		TROPA_MIN		Tropaeolum minus L.	bush nasturtium, dwarf nasturtium, capucine			
new	new 86			TWO		JP, NZ	CROWE		CROWE_SAL		Crowea saligna Andrews				
new	new 87			TWO		JP, US	MELAM		MELAM		Melampodium L.				
new	new 88			TWO		JP, US	MELAM		MELAM_LEU		Melampodium leucanthum Torr. & A. Gray				
new	new 89			TWO		JP, US	MELAM		MELAM_LEU		Melampodium paludosum Kunth				
new	new 90		TWF			DE	RUBUS		RUBUS_ARC		Rubus arcticus L.				
original	mod 33(a)			TWO		TWO			CUSCA_EPI	*	Cuscuta epilinum Weihe				
modified	mod 33(a)			TWO		TWO			CUSCA_EPL	*	Cuscuta epilinum Weihe				

Modif-ication	Modific-ation ref.	Checking TWP				Checking Country	Denom. class	Parent codes	UPOV Code		Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
		TWA	TWF	TWO	TWV										
original	mod 33(a)			TWO		TWO			CUSCA_EPI	*	Cuscuta epithymum (L.) L.				
modified	mod 33(a)			TWO		TWO			CUSCA_EPT	*	Cuscuta epithymum (L.) L.				

[Annex II - Part B follows]

ANNEX II - Part B

REPORT ON THE CHANGES MADE TO THE UPOV CODES AND NAMES SINCE FEBRUARY 1, 2005, USING THE AUTOMATIC REPORT FACILITY IN GENIE

Report not yet available

[Annex III follows]

EXTRACT

UPOV : GENIE Application

List of UPOV codes with hybrid links

UPOV Code:	Hybrid:	Parent:		Botanical name:	English:	French:	German:	Spanish:
AGROS_CAN	AGROS_SCA		+ *	Agrostis canina L.	Velvet Bent	Agrostis des chiens	Hundsstraußgras	Agróstide canina Agróstide de perro Agróstide perruna
AGROS_SCA		AGROS_CAN AGROS_STO	+	Agrostis stolonifera L. x A. canina. L.				
AGROS_STO	AGROS_SCA		+ *	Agrostis stolonifera L. Agrostis palustris Huds.	Creeping Bent	Agrostide blanche Agrostide stolonifère	FlechtstrauRgras	Agróstide estolonifera
AMARA_CRU	AMARA_HCR		+ *	Amaranthus cruentus L. Amaranthus paniculatus L.	Slim Amaranth	Amarante paniculée	Bastardfuchsschwanz	Achita Moco de pavo
AMARA_HCR		AMARA_CRU AMARA_HYP	+	Amaranthus hypocondriacus L. x Amaranthus cruentus L.				
AMARA_HYP	AMARA_HCR		+	Amaranthus hypocondriacus L.	Prince's-feather		Trauer-Fuchsschwanz	Alegria
BORON_HET	BORON_HME		+	Boronia heterophylla F. Muell.	Red Boronia			
BORON_HME		BORON_HET BORON_MEG	+	Boronia heterophylla x Boronia megastigma				
BORON_MEG	BORON_HME		+	Boronia megastigma Nees ex Bartl.	Brown boraria Scented boraria Sweet boraria			Boronia
BRASS_RAP	RAPBR_SRA		+ *	Brassica rapa L.				
BRCHY_ACU		BRCHY_ASC BRCHY_CUR	+	Brachyscome ascendens x curvicarpa				

[Annex IV follows]

\+ Principal botanical name

* ISTA stabilized name

EXTRACT

UPOV : GENIE Application

List of UPOV codes (including variety denomination class)

UPOV Code:	Variety Denomination Class:			Botanical name:	English:	French:	German:	Spanish:
ABELI	ABELI	+		Abelia R. Br.	Abelia	Abelia	Abelia	Abelia
ABELI_GRA	ABELI	+		Abelia x grandiflora Rehder				
ABELM	ABELM	+		Abelmoschus				
ABELM_ESC	ABELM	+	*	Abelmoschus esculentus (L.) Moench Hibiscus esculentus L.	Gombo	Ambrette	Okra	Okra
ABIES	Class 19	+	*	Abies Mill.	Fir	Sapin	Tanne	Abeto
ABIES_ALB	Class 19	+	*	Abies alba Mill.				
ABIES_AMA	Class 19	+	*	Abies amabilis Douglas ex J. Forbes				
ABIES_BAL	Class 19	+	*	Abies balsamea (L.) Mill.				
ABIES_CEP	Class 19	+	*	Abies cephalonica Loudon				
ABIES_CIL	Class 19	+	*	Abies cilicica (Antoine & Kotschy) Carriere				
ABIES_CON	Class 19	+	*	Abies concolor (Gordon & Gland.) Lindl. ex F. H. Hildebr.				
ABIES_FIR	Class 19	+	*	Abies firma Siebold & Zucc.				
ABIES_FRA	Class 19	+	*	Abies fraseri (Pursh) Poir.				
ABIES_GRA	Class 19	+	*	Abies grandis (Douglas ex D. Don) Lindl.				
ABIES_HOM	Class 19	+	*	Abies homolepis Siebold & Zucc.				
ABIES_LAS	Class 19	+	*	Abies lasiocarpa (Hook.) Nutt.				

[Annex IV - Part B follows]

\+ Principal botanical name

* ISTA stabilized name

EXTRACT

UPOV : GENIE Application

List of UPOV codes arranged by variety denomination class

Variety Denomination Class:	UPOV Code:		Botanical Name:
[Divided]	BETAA		Beta L.
	BETAA_VUL	*	Beta vulgaris L.
	BRASS		Brassica L.
	BRASS_RAP	*	Brassica rapa L.
	CUCUM		Cucumis L.
	HLNTS		Helianthus L.
	LUPIN		Lupinus L.
	NICOT		Nicotiana L.
	SOLAN		Solarium L.
	VICIA		Vicia L.
Class 1	AVENA		Avena L.
	AVENA_BAR	*	Avena barbata Pott ex Link
	AVENA_FAT	*	Avena fatua L.
	AVENA_NUD	*	Avena nuda L.
	AVENA_SAT	*	Avena sativa L.
	AVENA_SAT_BYZ		Avena byzantina K. Koch
	AVENA_STR	*	Avena strigosa Schreb.
	HORDE		Hordeum L.
	HORDE_JUB	*	Hordeum jubatum L.
	HORDE_MUR	*	Hordeum murinum L.
	HORDE_SPO	*	Hordeum spontaneum K. Koch
	HORDE_VUL		Hordeum vulgare L.
	HORDE_VUL_VUL		Hordeum vulgare L. subsp. vulgare
	SECAL		Secale

[End of Annex IV and of document]

* ISTA stabilized name