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TECHNICAL WORKING PARTY FOR ORNAMENTAL PLANTS AND FOREST TREES

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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 GENIE database, the UPOV Code System and the Plant Variety Database (PLUTO database) and to provide information on UPOV code additions and amendments for checking by the relevant authorities, as follows:

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GENIE DATABASE

2. It is recalled that the GENIE database (<u>http://www.upov.int/genie/en/</u>) has been developed to provide, for example, online information on the status of protection (see document C/46/6), cooperation in examination (see document C/46/5), experience in DUS testing (see document TC/49/4), and existence of UPOV Test Guidelines (see document TC/49/2) for different <u>GEN</u>era and speclEs (hence GENIE), and is used to generate the relevant Council and Technical Committee (TC) documents concerning that information. In addition, the GENIE database is the repository of the UPOV codes and also provides information concerning alternative botanical and common names.

UPOV CODE SYSTEM

Guide to the UPOV Code System

3. The "Guide to the UPOV Code System" (see <u>http://www.upov.int/genie/en/pdf/upov_code_system.pdf</u>), as amended by the Technical Committee (TC), at its forty-eighth session, held in Geneva from March 26 to 28, 2012, and the Administrative and Legal Committee (CAJ), at its sixty-fifth session, held on March 29, 2012, is reproduced in Annex I to this document (see documents TC/48/22 "Report on the Conclusions", paragraphs 95 to 100 and CAJ/65/13 "Report", paragraphs 38 to 43).

UPOV code developments

4. In 2012, 212 new UPOV codes were created and amendments were made to 5 UPOV codes. The total number of UPOV codes in the GENIE database at the end of 2012 was 7,061.

	Year							
	2005	<u>2006</u>	2007	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>
New UPOV codes	n/a	n/a	n/a	300 (approx)	148	114	173	212
Amendments	n/a	n/a	n/a	30 (approx)	17	6	12*	5
Total UPOV Codes (at end of year)	5,759	5,977	6,169	6,346	6,582	6,683	6,851	7,061

including changes to UPOV codes resulting from reclassification of *Lycopersicon, Solanum* and *Cyphomandra* (see document TC/47/8).

5. As a consequence of the amended procedure for allocating UPOV codes for hybrid genera and species, such that a single UPOV code covers all hybrid combinations of the same genera/species (see document TC/48/22 "Report on the Conclusions", paragraph 96, and document CAJ/65/13 "Report", paragraph 13), a number of existing UPOV codes have been amended as indicated in Annex II to this document. The CAJ, at its sixty-sixth session, held in Geneva on October 29, 2012, noted that the publication of the amended UPOV code System would be arranged in conjunction with the consequential changes of a number of UPOV codes, which would be coordinated with the notification to all members of the Union and other contributors to the PLUTO database (see document CAJ/66/8 "Report on the Conclusions", paragraph 16).

6. The TC, at its forty-ninth session, held in Geneva, from March 18 to 20, 2013, noted the amendments to UPOV codes and the plan of the Office of the Union to prepare tables of UPOV code additions and amendments, for checking by the relevant authorities, for each of the TWPs sessions in 2013 (see document TC/49/41 "Report on the conclusions", paragraph 91).

provided 7. The (available website only: Excel file as Annex V on the see http://upov.int/meetings/en/details.jsp?meeting_id=28530) to this document provides information on new UPOV codes added to the GENIE database and UPOV code amendments that have not yet been checked by the relevant authorities according to the procedure set out in Section 3.3 of the Guide to the UPOV Code System (see http://www.upov.int/genie/en/pdf/upov_code_system.pdf).

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8. The Excel file contains two spreadsheets. The file will open on the spreadsheet with UPOV code amendments ("Amendments"): for each change, the old entry is highlighted in the row in red and the changes to the entry are found in the line immediately below that highlighted row (they have the same number in the first column). All Technical Working Parties and Authority(ies) are requested to check the amendments.

9. The second spreadsheet "New_UPOV_codes or information", contains the new UPOV codes or new information added for existing UPOV codes. Highlighting in grey indicates that the UPOV code or name has not been changed. In this spreadsheet, the column headers highlighted in yellow indicate the relevant Technical Working Party (TWP) and Authority(ies) which are requested to check the information.

- 10. The TWO is invited to check:
 - (a) the amendments to UPOV codes; and

(b) the new UPOV codes or new information added for existing UPOV codes, which are provided in Annex V to this document.

PLANT VARIETY DATABASE

Program for Improvements to the Plant Variety Database ("Program")

11. Annex III to this document contains the Program as approved by the CAJ, at its fifty-ninth session, held in Geneva on April 2, 2009, and amended by the CAJ at its sixty-fifth session, held in Geneva on March 29, 2012.

12. The following paragraphs provide an update on developments concerning the program for improvements to the Plant Variety Database ("Program") since the forty-fifth session of the TWO.

Web-based version of the Plant Variety Database (Program: Section 6)

Information on the latest date of submission by the contributors

13. For the short-term, information on the latest date of submission by the contributors has been provided for the Plant Variety Database in the form of a pdf document. However, in the longer term, it is planned that the date of submission will be provided for individual data retrieved from the database.

Search rules

14. An explanation of the search rules for the PLUTO database, including the new page that has been provided for searching variety denominations, will be provided and will be demonstrated at the forty-sixth session of the TWO.

15. The CAJ, at its sixty seventh session, held in Geneva on March 21, 2013, noted the presentation made by the Delegation of the European Union on the Community Plant Variety Office (CPVO) experience in the use of its denomination similarity search tool in the examination of proposed denominations (see document CAJ/67/14 "Report on the conclusions", paragraph 49).

16. The CAJ welcomed the proposal made during the presentation by the CPVO to explore the possibility to develop a UPOV similarity search tool for variety denomination purposes, based on the CPVO search tool, and agreed to include an item to consider that proposal at its sixty-eighth session, to be held in Geneva on October 21, 2013 (see document CAJ/67/14 "Report on the conclusions", paragraph 50).

Facility to save search settings

17. An explanation of the possibilities to save search settings for the PLUTO database will be provided and will be demonstrated at the forty-sixth session of the TWO.

User registration

18. The Consultative Committee, at its eighty–second session, held in Geneva on October 19, 2011, agreed to require users of the PLUTO database to register in order that the use of the PLUTO database could be monitored, with a view to using that feedback for future improvements. It was emphasized that this would mean that the PLUTO database would still be freely accessible. The requirement for users to register was implemented in March, 2013, and an explanation of the registration procedure will be demonstrated at the forty-sixth session of the TWO.

Alphabets

19. The CAJ, at its sixty-fifth session, agreed to amend the Program, as set out in Annex III to document CAJ/65/6, with regard to Section 3.2 "Data quality and completeness" and Section 3.3 "Mandatory items", in order to introduce the possibility for contributors to the PLUTO database to provide data in the original alphabet, in addition to the data being provided in Roman alphabet.

20. The necessary arrangements for the inclusion of data in the original alphabet, in addition to the data being provided in Roman alphabet, have been made.

Provision of assistance to contributors (Program: Section 2)

21. Annex IV to this document provides a summary of the contributions to the PLUTO database in 2011 and 2012 and the current situation of members of the Union on data contribution.

22. With regard to the assistance provided to contributors, it is recalled that all contributors to the PLUTO database are responsible for the correctness and completeness of the data they supply (see Program, Section 2.4). In cases where assistance is provided to contributors, the contributor will continue to be responsible for the correctness and completeness of the data. Thus, contributors will always be requested to approve any suggested modifications of data they supply, including the addition or amendment of UPOV codes, before the data is entered in the PLUTO database.

Data to be included in the Plant Variety Database (Program: Section 3)

23. The Program in Annex III to this document reflects the modification of Section 3.2 "Data quality and completeness" (see new TAG <800>), in order to introduce the possibility for contributors to the PLUTO database to provide information on dates on which a variety was commercialized for the first time in the territory of application and other territories. Contributors can now provide information on dates on which a variety was commercialized for the first time in the territory of application and other territories.

CD-ROM version of the Plant Variety Database (Program: Section 6)

24. Section 6 of the Program explains that the possibility to create CD-ROM versions of the PLUTO database, without the need for the services of Jouve, will be developed in parallel to the web-based version of the database. The production of the UPOV-ROM by Jouve was terminated at the end of 2012, after which time the WIPO Brand Database Unit has made arrangements to produce a CD-ROM version of the PLUTO database (PLUTO CD-ROM), which can be provided to members of the Union upon request.

Common search platform (Program: Section 7)

25. Document TWO/46/4 "Variety Denominations" provides background information on a possible future meeting with the International Society for Horticultural Science (ISHS) and other relevant partners to discuss denomination classes and the concept of a common search platform for variety denomination searching purposes.

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26. The TWO is invited to note the developments concerning the program for improvements to the Plant Variety Database ("Program") since the forty-fifth session of the TWO, as set out in paragraphs 13 to 25.

SURVEY OF MEMBERS OF THE UNION ON THEIR USE OF DATABASES AND ELECTRONIC APPLICATION SYSTEMS

27. The CAJ, at its sixty-sixth session, held in Geneva on October 29, 2012, requested the Office of the Union to conduct a survey of members of the Union on their use of databases for plant variety protection purposes and also on their use of electronic application systems (see document CAJ/66/8 "Report on the Conclusions", paragraph 21). The Office of the Union intends to issue that survey after the forty-ninth session of the TC and the sixty-seventh session of the CAJ.

28. The TC is invited to note the plans of the Office of the Union to conduct a survey of members of the Union on their use of databases for plant variety protection purposes and on their use of electronic application systems.

[Annexes follow]

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ANNEX I

GUIDE TO THE UPOV CODE SYSTEM

1. PURPOSE

1.1 The main purpose of the UPOV Code System is to enhance the usefulness of the UPOV Plant Variety Database by overcoming the problem of synonyms for plant taxa. That is achieved by attributing each taxa a code according to the UPOV Code System ("UPOV code"); synonyms for the same plant taxa are attributed the same UPOV code.

1.2 The UPOV Code System is employed in the <u>GENIE database</u>, which has been developed to provide, for example, online information on the status of protection (see document C/40/6), cooperation in examination (see document C/40/5), experience in DUS testing (see document TC/43/4), and existence of UPOV Test Guidelines (see document TC/43/2) for different <u>GEN</u>era and specIEs (hence GENIE), and is also used to generate the relevant Council and Technical Committee (TC) documents concerning that information.

2. UPOV CODE CONSTRUCTION

2.1 <u>General basis</u>

2.1.1 In general, the following UPOV code construction is used for the UPOV Code System:

- (a) an alphabetic element of five letters (e.g. XXXXX) indicating the genus ("genus element");
- (b) a three-letter element (e.g. YYY) indicating the <u>species</u> ("species element");

(c) where relevant, a further element of up to three characters (e.g. ZZ1) indicating a <u>sub-specific unit</u> ("sub-species element");

thus, XXXXX_YYY_ZZ1

2.1.2 In all cases, the five-letter genus element is to be provided, but the three-letter species element and the sub-specific element are only provided where necessary.

2.1.3 As far as possible, the elements try to follow the first letters of the botanical name of that element, e.g.:

Prunus PRUNU_ Prunus armeniaca PRUNU ARM

2.1.4 In some cases, it is necessary to improvise to ensure that similar taxa have different UPOV codes (e.g. *Platycodon* = "PLTYC_" and *Platymiscium* = "PLTYM_"). In cases where the name is shorter than the UPOV code, the last letter of the name is repeated e.g. *Poa* = POAAA.

2.1.5 In the case of the sub-specific element, the UPOV code is used in a more flexible way to contain more than one level of ranking, thereby avoiding the need for extra elements in the UPOV code.

2.2 Inter-generic and inter-specific hybrids

2.2.1 The letter "x" is not used in the UPOV code to indicate hybrids.

(Background note: the multiplication sign 'x' is used in botany as an optional device to indicate hybridity, but is not part of a name in any sense and may or may not be applied according to the wishes and opinions of a botanical author or editor. What one person considers a hybrid, may not be so considered by another, thus we may see *Solanum tuberosum* or *Solanum x tuberosum* if the writer of the second version understands the potato species to be of hybrid origin.)

2.2.2 In the case of a genus which is formed as a hybrid between other genera and for which there is a binomial name (e.g. *×Triticosecale* [= *Triticum* x *Secale*]), the "genus element" of the UPOV code is based on the binomial name. For example, *×Triticosecale* has the UPOV code "TRITL".

2.2.3 In the case of a genus which is formed as a hybrid between two genera ("hybrid genus") (e.g. *Alpha* x *Beta*) and for which there is no binomial name, a UPOV code is created for the new "hybrid genus". The genus element of the UPOV code is produced by combining the first two letters of the female parent genus and the first three letters of the male parent genus. For example, a "hybrid genus" which was formed as a hybrid between *Alpha* (UPOV code: ALPHA) and *Beta* (UPOV code: BETAA) would have the UPOV code "ALBET".

2.2.4 In the case of a species which is formed as a hybrid between two species and for which there is no binomial name ("hybrid species") (e.g. *Alpha one x Alpha two*), a UPOV code is created for the new "hybrid species". The species element of the UPOV code is produced by combining the first letter of the female parent species and the first two letters of the male parent species. For example, a "hybrid species" which was formed as a hybrid between *Alpha one* (UPOV code: ALPHA_ONE) x *Alpha two* (UPOV code: ALPHA_TWO) would have the UPOV code "ALPHA_OTW".

2.2.5 In the case of a hybrid genus (or species) which is formed as a hybrid between more than two genera (or species) and for which there is no binomial name, the same general approach is followed as for a hybrid between two genera (or species); the sequence of letters used in the UPOV code is based on the order of female parent followed by male parent.

2.2.6 In the case of UPOV codes for hybrid genera and species, the UPOV code will not distinguish between two hybrids produced using the same parents. A UPOV code is created for the first hybrid notified to UPOV in accordance with the procedure set out in paragraphs 2.2.3 to 2.2.5. However, if a subsequent request is received for a hybrid involving the same genera/species in a different combination, the Principal Botanical Name will be amended to indicate that the UPOV code covers all combinations involving the same genera/species.

Example:

UPOV code request received for: Alpha one x Alpha two

UPOV Code	Principal Botanical Name
ALPHA_OTW	Alpha one x Alpha two

Subsequently, UPOV code request received for: Alpha

Alpha two x Alpha one or (Alpha one x Alpha two) x Alpha one etc.

UPOV Code	Principal Botanical Name
ALPHA_OTW	Hybrids between Alpha one and Alpha two

2.3 Grouping classification: Brassica and Beta

A grouping classification is used for UPOV 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 UPOV code starts 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_GVA	Beta vulgaris L. ssp. vulgaris var. alba DC.	Fodder beet

UPOV code	Botanical name	Common name
BETAA_VUL_GVC	Beta vulgaris L. ssp. vulgaris var. conditiva Alef.	Beetroot
BETAA_VUL_GVF	Beta vulgaris L. ssp. vulgaris var. flavescens DC.	Leaf beet
BETAA_VUL_GVS	Beta vulgaris L. ssp. vulgaris var. saccharifera Alef.	Sugar beet
BRASS_OLE_GA	Brassica oleracea L. convar. acephala (DC.) Alef.	Kale
BRASS_OLE_GAM	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_GAV	Brassica oleracea L. convar. acephala (DC.) Alef. var. viridis L.	Fodder kale
BRASS_OLE_GB	Brassica oleracea L. convar. botrytis (L.) Alef.	
BRASS_OLE_GBB	Brassica oleracea L. convar. botrytis (L.) Alef. var. botrytis	Cauliflower
BRASS_OLE_GBC	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_GCA	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. alba DC.	White cabbage
BRASS_OLE_GCR	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. rubra (L.) Thell.	Red cabbage
BRASS_OLE_GCS	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

3. PROCEDURE FOR THE INTRODUCTION AND AMENDMENT OF UPOV CODES

3.1 Responsibility for the UPOV Code System

The Office of the Union (Office) is responsible for the UPOV Code System and the individual UPOV codes.

3.2 Repository of UPOV Codes

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

3.3 Introduction of New UPOV Codes / Amendments to UPOV Codes

(a) In the first instance, the Office will create a UPOV code on the basis of the Germplasm Resources Information Network (GRIN) database¹, 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 UPOV code, it will, wherever possible, check its proposals with those experts before creating the UPOV code.

(c) New UPOV 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 UPOV codes in a timely manner and, in particular, will seek to ensure that new UPOV codes are available to allow their use for the forthcoming edition of the Plant Variety Database. In addition, the Office will add new UPOV codes where it identifies a need.

(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 "Explanatory notes on variety denominations under the UPOV Convention" (document UPOV/INF/12) contain UPOV variety denomination classes; for genera and species not covered by the List of Classes in Annex I to

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¹ USDA, ARS, National Genetic Resources Program. *Germplasm Resources Information Network - (GRIN)* [Online Database]. National Germplasm Resources Laboratory, Beltsville, Maryland. URL: <u>http://www.ars-grin.gov/cgi-bin/npgs/html/tax_search.pl</u>

document UPOV/INF/12, the general rule ("one genus / one class") is that a genus is considered to be a class (see document UPOV/INF/12, Section 2.5.2 and its Annex I). Therefore, it is important that the first element of the UPOV code can be used to sort species into the correct genus. The UPOV 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 UPOV 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 UPOV codes will be presented to the relevant Technical Working Parties (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.

(f) Checking by Technical Working Party(ies): the Office determines the relevant TWP(s) for checking each UPOV code on the basis of available information.

(g) Checking by all authorities: all the experts of the relevant TWP(s) to be invited to check the UPOV codes where:

(i) many authorities (e.g. 10 or more) have practical experience in DUS testing (based on GENIE database / document TC/xx/4 (e.g. TC/43/4)), have provided interested experts in the drafting of relevant Test Guidelines and/or have protected varieties (based on UPOV Plant Variety Database); or

(ii) they concern genera or species for which a wide review is considered appropriate by the Office (e.g. because it concerns a proposal for a species or sub-species not previously recognized within the genus, or a proposal for restructuring of the UPOV code).

(h) Checking by specific authorities: in cases not covered by (g) above, the experts of the relevant TWP(s) of specific authorities will be invited to check the UPOV codes. The specific authorities being those which have practical DUS testing experience, have provided interested experts in the drafting of relevant Test Guidelines, or which have granted protection for varieties covered by the relevant UPOV code.

3.4 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 3.3 (d), above), result in a need to change the UPOV code. In such cases, the procedure is as explained in section 3.3, above. In other cases, the Office will amend the information linked to the existing UPOV 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.

4. PUBLICATION OF UPOV CODES

4.1 As explained in Section 3.2, all UPOV codes can be accessed in the GENIE database, which is available on the UPOV website (see http://www.upov.int/genie/en/).

4.2 In addition, the UPOV codes, together with their relevant botanical and common names and variety denomination class as contained in the GENIE database, are published on the UPOV website (see http://www.upov.int/genie/en/updates/). That information is published in a form that facilitates electronic downloading of the UPOV codes.

[Annex II follows]

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ANNEX II

AMENDMENTS TO UPOV CODES FOR HYBRIDS

	previous			amended	
UPOV code	principal botanical name	other botanical name(s)	UPOV code	principal botanical name	other botanical names
BRCYC_BCA	Brachychiton bidwillii x Brachychiton xcarneus	Brachychiton bidwillii x (Brachychiton garrawayae x Brachychiton grandiflorus)	BRCYC_BCA	hybrids between Brachychiton bidwillii and Brachychiton x carneus	Brachychiton bidwillii x Brachychiton xcarneus
BRCYC_CBI	Brachychiton xcarneus x Brachychiton bidwillii	(Brachychiton garrawayae x Brachychiton grandiflorus) x Brachychiton			Brachychiton xcarneus x Brachychiton bidwillii
		Diawiiii			Brachychiton bidwillii x (Brachychiton garrawayae x Brachychiton grandiflorus)
					(Brachychiton garrawayae x Brachychiton grandiflorus) x Brachychiton bidwillii
GERAN_HWA	Geranium himalayense Klotzch x Geranium wallichianum D. Don		GERAN_HWA	hybrids between Geranium himalayense and Geranium	Geranium himalayense x Geranium wallichianum
GERAN_WHI	Geranium wallichianum x himalayense			wanchan	Geranium wallichianum x Geranium himalayense
LEUCD_LSA	Leucadendron laureolum x Leucadendron salignum		LEUCD_LSA	hybrids between Leucadendron laureolum and Leucadendron	Leucadendron laureolum x Leucadendron salignum
LEUCD_SLA	Leucadendron salignum Berg x Leucadendron laureolum Lam Fourc			sangnum	Leucadendron salignum x Leucadendron laureolum
LOTUS_BMA	Lotus berthelotii x Lotus maculatus		LOTUS_BMA	hybrids between Lotus berthelotii and Lotus maculatus	Lotus berthelotii x Lotus maculatus
LOTUS_MBE	Lotus maculatus x berthelotii				Lotus maculatus x Lotus berthelotii
PELAR_PZO	Pelargonium peltatum x P. zonale-Hybridae		PELAR_PZO	hybrids between Pelargonium peltatum and Pelargonium	Pelargonium peltatum x Pelargonium zonale-Hybridae
PELAR_ZPE	Pelargonium xhortorum L. H. Bailey x Pelargonium peltatum (L.)			zonale-nybruae	Pelargonium ×hortorum × Pelargonium peltatum
PRUNU_ADO	Prunus armeniaca x Prunus domestica		PRUNU_ADO	hybrids between Prunus armeniaca and Prunus domestica	Prunus armeniaca x Prunus domestica
PRUNU_ADA	Prunus armeniaca x Prunus domestica x Prunus armeniaca				Prunus armeniaca x Prunus domestica x Prunus armeniaca
PRUNU_DAR	Prunus domestica x Prunus armeniaca	Prunus domestica x Prunus domestica x Prunus armeniaca			Prunus domestica x Prunus armeniaca
		Prunus domestica x Prunus domestica x Prunus domestica x Prunus			Prunus domestica x Prunus domestica x Prunus armeniaca
		armeniaca			Prunus domestica x Prunus domestica x Prunus domestica x Prunus armeniaca
PRUNU_APS	Prunus avium x P. pseudocerasus L.		PRUNU_APS	hybrids between Prunus avium and Prunus pseudocerasus	Prunus avium x Prunus pseudocerasus
PRUNU_PAV	Prunus pseudocerasus x P. avium				Prunus pseudocerasus x Prunus avium
PRUNU_SAM	Prunus salicina x P. armeniaca L.		PRUNU_SAM	hybrids between Prunus salicina and Prunus armeniaca	Prunus salicina x Prunus armeniaca
PRUNU_ASA	Prunus armeniaca x Prunus salicina x Prunus armeniaca				Prunus armeniaca x Prunus salicina x Prunus armeniaca
PRUNU_SAS	Prunus salicina x Prunus armeniaca x Prunus salicina				Prunus salicina x Prunus armeniaca x Prunus salicina
PRUNU_SSP	Prunus salicina x Prunus salicina x Prunus armeniaca				Prunus salicina x Prunus salicina x Prunus armeniaca
PRUNU_DOP	Prunus domestica x Prunus persica		PRUNU_DOP	hybrids between Prunus domestica and Prunus persica	Prunus domestica x Prunus persica
PRUNU_PDO	Prunus persica x Prunus domestica L.	Amygdalus communis L. x genus Prunus			Prunus persica x Prunus domestica
PRUNU_PDP	Prunus persica x Prunus domestica x Prunus persica				Prunus persica x Prunus domestica x Prunus persica
PRUNU_DPE	Prunus davidiana x Prunus persica		PRUNU_DPE	hybrids between Prunus davidiana and Prunus persica	Prunus davidiana x Prunus persica
PRUNU_PDA	Prunus persica x Prunus davidiana				Prunus persica x Prunus davidiana
PRUNU_CMA	Prunus cerasus x Prunus maackii		PRUNU_CMA	hybrids between Prunus cerasus and Prunus maackii	Prunus cerasus x Prunus maackii
PRUNU_CCM	Prunus cerasus x (Prunus cerasus x Prunus maackii)				Prunus cerasus x (Prunus cerasus x Prunus maackii)
TAGET_PMM	Tagetes patula L. ssp nana x T. minuta L. x T. minuta L.		TAGET_PMM	hybrids between Tagetes patula and Tagetes minuta	Tagetes patula ssp nana × Tagetes minuta × Tagetes minuta
TAGET_MPM	Tagetes minuta L. × Tagetes patula L. ssp. nana × Tagetes minuta				Tagetes minuta × Tagetes patula ssp. nana × Tagetes minuta
VITIS_RVI	Vitis riparia Michx. x V. vinifera L.		VITIS_RVI	hybrids between Vitis riparia and Vitis vinifera	Vitis riparia x Vitis vinifera
VITIS_VRI	Vitis vinifera L. x Vitis riparia Michx.				Vitis vinifera x Vitis riparia

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ANNEX III

PROGRAM FOR IMPROVEMENTS TO THE PLANT VARIETY DATABASE

as approved by the Administrative and Legal Committee (CAJ), at its fifty-ninth session, held in Geneva on April 2, 2009 and amended by the CAJ at its sixty-fifth session, held in Geneva on March 29, 2012

1. Title of the Plant Variety Database

The name of the Plant Variety Database will be the "PLUTO Plant Variety Database", abbreviated to PLUTO as appropriate (PLUTO = **PL**ant varieties in the **U**POV system: **The O**mnibus).

2. Provision of assistance to contributors

2.1 The Office will continue to contact all members of the Union and contributors to the Plant Variety Database that do not provide data for the Plant Variety Database, do not provide data on a regular basis, or do not provide data with UPOV codes. In each case, they will be invited to explain the type of assistance that would enable them to provide regular and complete data for the Plant Variety Database.

2.2 In response to the needs identified by members of the Union and contributors to the Plant Variety Database in 2.1, the designated World Intellectual Property Organization (WIPO) staff, in conjunction with the Office, will seek to develop solutions for each of the Plant Variety Database contributors.

2.3 An annual report on the situation will be made to the Administrative and Legal Committee (CAJ) and Technical Committee (TC).

2.4 With regard to the assistance to be provided to contributors, the UPOV-ROM "General Notice and Disclaimer" states that "[...] All contributors to the UPOV-ROM are responsible for the correctness and completeness of the data they supply. [...]". Thus, in cases where assistance is provided to contributors, the contributor will continue to be responsible for the correctness and completeness of the data.

3. Data to be included in the Plant Variety Database

3.1 Data format

3.1.1 In particular, the following data format options to be developed for contributing data to the Plant Variety Database:

- (a) data in XML format;
- (b) data in Excel spreadsheets or Word tables;
- (c) data contribution by on-line web form;
- (d) an option for contributors to provide only new or amended data

3.1.2 To consider, as appropriate, restructuring TAG items; for example, where parts of the field are mandatory and other parts not.

3.1.3 Subject to Section 3.1.4, the character set for data shall be the ASCII [American Standard Code for Information Interchange] representation, as defined in ISO [International Standards Organization] Standard 646. Special characters, symbols or accents ($\tilde{,}, \tilde{,}, \tilde{,}, \text{etc.}$) are not accepted. Only characters of the English alphabet may be used.

3.1.4 In the case of data submitted for TAG <520>, <550>, <551>, <552>, <553>, <650> <651>, <652>, <750>, <751>, <752>, <753>, <760>, <950> and <960>, the data must be submitted in Unicode Transformation Format-8 (UTF-8).

3.2 Data quality and completeness

The following data requirements to be introduced in the Plant Variety Database

TAG	Description of Item	Current Status	Proposed status	Database developments required
<000>	Start of record and	mandatory	start of record to bo	mandatory subject to development of
<000>	record status		mandatory	facility to calculate record status (by comparison with previous data submission), if required
<190>	Country or organization providing information	mandatory	mandatory	data quality check: to verify against list of codes
<010>	Type of record and (variety) identifier	mandatory	both mandatory	 (i) meaning of "(variety) identifier" to be clarified in relation to item <210>; (ii) to review whether to continue type of record "BIL"; (iii) data quality check: to check against list of types of record
<500>	SpeciesLatin name	mandatory until UPOV code provided	mandatory (even if UPOV code provided)	
<509>	Speciescommon name in English	mandatory if no common name in national language (<510>) is given.	not mandatory	
<510>	Speciescommon name in national language other than English	mandatory if no English common name (<509>) is given	REQUIRED if <520> is provided	
<520>	Speciescommon name in national language other than English in non- Roman alphabet		not mandatory	
<511>	SpeciesUPOV Taxon Code	mandatory	mandatory	 (i) if requested, the Office to provide assistance to the contributor for allocating UPOV codes; (ii) data quality check: to check UPOV codes against the list of UPOV codes; (iii) data quality check: to check for seemingly erroneous allocation of UPOV codes (e.g. wrong code for species)
	/INATIONS		1	
<540>	Date + denomination, proposed, first appearance or first entry in data base	mandatory if no breeder's reference (<600>) is given	(i) mandatory to have <540>, <541>, <542>, or <543> if <600> is not provided (ii) date not mandatory (iii) REQUIRED if <550>, <551>, <552> or <553> are provided	 (i) to clarify meaning and rename; (ii) data quality check: mandatory condition in relation to other items
<550>	Date + denomination, proposed, first appearance or first entry in data base in non-Roman alphabet		not mandatory	
<541>	Date + proposed denomination, published		see <540>	(i) to clarify meaning and rename(ii) data quality check: mandatory condition in relation to other items
<551>	Date + proposed denomination, published in non-Roman alphabet		not mandatory	

TAG	Description of Item	Current Status	Proposed status	Database developments required
<542>	Date + denomination, approved	mandatory if protected or listed	see <540>	 (i) to clarify meaning and rename; (ii) to allow for more than one approved denomination for a variety (i.e. where a denomination is approved but then replaced) (iii) data quality check: mandatory condition in relation to other items
<552>	Date + denomination, approved in non-Roman alphabet		not mandatory	
<543>	Date + denomination, rejected or withdrawn		see <540>	(i) to clarify meaning and rename(ii) data quality check: mandatorycondition in relation to other items
<553>	Date + denomination, rejected or withdrawn in non-Roman alphabet		not mandatory	
<600>	Breeder's reference	mandatory if existing	REQUIRED if <650> is provided	
<650>	Breeder's reference in non-Roman alphabet		not mandatory	
<601>	Synonym of variety denomination		REQUIRED if <651> is provided	
<651>	Synonym of variety denomination in non- Roman alphabet		not mandatory	
<602>	Trade name		REQUIRED if <652> is provided	(i) to clarify meaning(ii) to allow multiple entries
<652>	Trade name in non-Roman alphabet		not mandatory	· · · · · · · · · · · · · · · · · · ·
<210>	Application number	mandatory if application exists	mandatory if application exists	to be considered in conjunction with <010>
<220>	Application/filing date	mandatory if application exists	mandatory	explanation to be provided if TAG<220> not completed
<400>	Publication date of data regarding the application (protection)/filing (listing)		not mandatory	
<111>	Grant number (protection)/registration number (listing)	mandatory if existing	(i) mandatory to have <111> / <151> / <610> or <620> if granted or registered (ii) date not mandatory	(i) data quality check: mandatory condition in relation to other items;(ii) to resolve any inconsistencies concerning the status of TAG<220>
<151>	Publication date of data regarding the grant (protection) / registration (listing)		see <111>	data quality check: mandatory condition in relation to other items
<610>	Start dategrant (protection)/registration (listing)	mandatory if existing	see <111>	 (i) data quality check: mandatory condition in relation to other items; (ii) data quality check: date cannot be earlier than <220>
<620>	Start daterenewal of registration (listing)		see <111>	 (i) data quality check: mandatory condition in relation to other items: (ii) data quality check: date cannot be earlier than <610> (iii) to clarify meaning
<665>	Calculated future expiration date	mandatory if grant/listing	not mandatory	
<666>	Type of date followed by "End date"	mandatory if existing	not mandatory	

TAG	Description of Item	Current Status	Proposed status	Database developments required		
PARTIE	PARTIES CONCERNED					
<730>	Applicant's name	mandatory if application exists	mandatory if application exists or REQUIRED if <750> is provided			
<750>	Applicant's name in non- Roman alphabet		Not mandatory			
<731>	Breeder's name	mandatory	mandatory	to clarify meaning of "breeder" according to document TGP/5 (see <733>)		
<751>	Breeder's name in non- Roman alphabet		Not mandatory			
<732>	Maintainer's name	mandatory if listed	REQUIRED if <752> is provided	to be accompanied by start and end date (maintainer can change)		
<752>	Maintainer's name in non- Roman alphabet		Not mandatory			
<733>	Title holder's name	mandatory if protected	mandatory if protected or REQUIRED if <753> is provided	 (i) to clarify meaning of "title holder" according to document TGP/5 (see <731>) (ii) to be accompanied by start and end date (title holder can change) 		
<753>	Title holder's name in non- Roman alphabet		Not mandatory			
<740>	Type of other party followed by party's name		REQUIRED if <760> is provided			
<760>	Type of other party followed by party's name in non-Roman alphabet		not mandatory			
INFOR	MATION REGARDING EQU	IVALENT APPLICAT	IONS IN OTHER TERRI	TORIES		
<300>	Priority application: country, type of record, date of application, application number		not mandatory			
<310>	Other applications: country, type of record, date of application, application number		not mandatory			
<320>	Other countries: Country, denomination if different from denomination in application		not mandatory			
<330>	Other countries: Country, breeder's reference if different from breeder's reference in application		not mandatory			
<900>	Other relevant information (phrase indexed)		REQUIRED if <950> is provided			
<950>	Other relevant information (phrase indexed) in non- Roman alphabet		not mandatory			
<910>	Remarks (word indexed)		REQUIRED if <960> is provided			
<960>	Remarks (word indexed) in non-Roman alphabet		not mandatory			
<920>	Tags of items of information which have changed since last transmission (optional)		not mandatory	to develop option to generate automatically (see 2.1.1.(a))		
<998>	FIG	1	not mandatory			
<999>	use)		not mandatory	to create possibility to provide hyperlink to image (e.g. an authority's webpage)		

<u>TAG</u>	Description of Item	Current Status	Proposed status	Database developments required		
DATES	DATES OF COMMERCIALIZATION					
<800>	Commercialization dates		not mandatory			

<800> example: "AB CD 20120119 source status" or "AB CD 2012 source status"

3.3 Mandatory and required "items"

3.3.1 With respect to items that are indicated as "mandatory" in Section 3.2, data will not be excluded from the Plant Variety Database if that item is absent. However, a report of the non-compliances will be provided to the contributor.

3.3.2 A summary of non-compliances will be reported to the TC and CAJ on an annual basis.

3.3.3 With respect to items that are indicated as "REQUIRED" in Section 3.2, data will be excluded from the Plant Variety Database if the required item is absent in Roman alphabet.

3.4 Dates of commercialization

3.4.1 An item will be created in the Plant Variety Database to allow for information to be provided on dates on which a variety was commercialized for the first time in the territory of application and other territories, on the following basis:

Item <XXX>: dates on which a variety was commercialized for the first time in the territory of application and other territories (not mandatory)

	Comment
(i) Authority providing the [following] information	ISO two letter code
(ii) Territory of commercialization	ISO two letter code
(iii) Date on which the variety was commercialized [*] for the first time in the territory	according to the format YYYY[MMDD] (Year[MonthDay]): month and day will not be
([*] The term "commercialization" is used to cover "sold or otherwise disposed of to others, by or with the consent of the breeder, for purposes of exploitation of the variety" (Article 6(1) of the 1991 Act of the UPOV Convention) or "offered for sale or marketed, with the agreement of the breeder" (Article 6(1)(b) of the 1978 Act of the UPOV Convention), as appropriate.	mandatory if not available
(iv) Source of information	mandatory for each entry in item <xxx></xxx>
(v) Status of information	mandatory for each entry in item <xxx></xxx>
	(to provide an explanation or a reference to where an explanation is provided (e.g. the website of the authority providing the data for this item)
Note: for the same application, the authority in (i) could provide more than one entry for items (ii) to (v). In particular, it could provide information on commercialization in the "territory of application", but also "other territories"	

3.4.2 The following disclaimer will appear alongside the title of the item in the database:

"The absence of information in [item XXX] does not indicate that a variety has not been commercialized. With regard to any information provided, attention is drawn to the source and status of the information as set out in the fields 'Source of information' and 'Status of information'. However, it should also be noted that the information provided might not be complete and accurate."

4. Frequency of data submission

The Plant Variety Database will be developed in such a way as to allow updating at any frequency determined by the members of the Union. Prior to completion and publication of the web-based version of the Plant Variety Database, no change is proposed to the frequency of updating, i.e. contributors will be requested to update their data on a bimonthly basis. Once that stage is complete, the TC and CAJ will be invited to consider whether to create possibilities for data to be updated on a more frequent basis.

5. Discontinuation of inclusion of general information documents in UPOV-ROM

On the basis that such information is readily available on the UPOV website, the following general information documents will no longer be included in the UPOV-ROM:

Addresses of Plant Variety Protection Offices List of members of the Union Cover with some useful information UPOV: What it is, what it does ("UPOV flyer") List of UPOV publications

6. Web-based version of the Plant Variety Database

6.1 A web-based version of the Plant Variety Database will be developed. The possibility to create CD-ROM versions of the Plant Variety Database, without the need for the services of Jouve, will be developed in parallel to the web-based version of the database.

6.2 An update on the planned timetable for development of a web-based version of the Plant Variety Database will be provided to the TC and CAJ.

7. Common search platform

A report on developments concerning the development of a common search platform will be made to the TC and CAJ. Any proposals concerning a common search platform will be put forward for consideration by the TC and CAJ.

[Annex IV follows]

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ANNEX IV

REPORT ON DATA CONTRIBUTED TO THE PLANT VARIETY DATABASE BY MEMBERS OF THE UNION AND OTHER CONTRIBUTORS AND ASSISTANCE FOR DATA CONTRIBUTION

	Contributor	Number of applications for Plant Breeders' Rights in 2011	Number of new data submissions to the Plant Variety Database in 2011 ²	Number of new data submissions to the Plant Variety Database in 2012 ³	Current situation
1.	Albania	16 (2007)	0	0	Awaiting reply to e-mail of 21/1/2013
2.	Argentina	231 (2010)	0	0	Awaiting submission following e-mail of 21/11/2012
3.	Australia	330	6	5	[Contributing data]
4.	*Austria	2	4	4	
5.	Azerbaijan	62	0	0	Awaiting reply to e-mail of 21/11/2012
6.	Belarus	59	0	1	[Contributing data]
7.	*Belgium	1	3	4	
8.	Bolivia	10	0	0	Awaiting reply to fax on 23/11/2012
9.	Brazil	324	2	5	[Contributing data]
10.	*Bulgaria	30	5	6	
11.	Canada	305	5	6	[Contributing data]
12.	Chile	92	3	3	[Contributing data]
13.	China	1,255	0	1	[Contributing data]
14.	Colombia	114	0	0	Awaiting reply to e-mail of 22/11/2012
15.	Costa Rica	5	0	0	Awaiting reply to e-mail of 6/12/2012
16.	*Croatia	32	1	1	[Contributing data]
17.	*Czech Republic	92	6	4	
18.	*Denmark	15	6	6	
19.	Dominican Republic	0	0	0	Awaiting reply to e-mail of 1/11/2012
20.	Ecuador	85	2	3	[Contributing data]
21.	*Estonia	12	4	5	
22.	*European Union	3,184	6	6	[Contributing data]
23.	*Finland	15 (2010)	4	3	
24.	*France	109	6	6	
25.	Georgia	11	0	0	Awaiting reply to e-mail of 21/2/2012
26.	*Germany	105	6	6	
27.	*Hungary	31	5	6	
28.	*Iceland	0	1	0	

² 6 indicates that new data was submitted for all six (6) new versions of the UPOV-ROM issued in 2011.

* Data provided via the CPVO.

³ 3 indicates that new data was submitted for all 3 new versions of the UPOV-ROM issued in 2012.

	Contributor	Number of applications for Plant Breeders' Rights in 2011	Number of new data submissions to the Plant Variety Database in 2011 ²	Number of new data submissions to the Plant Variety Database in 2012 ³	Current situation
29.	*Ireland	3	4	2	
30.	Israel	402	1	0	Awaiting reply to e-mail of 28/9/2012
31.	*Italy	8	6	6	
32.	Japan	1,126	2	1	[Contributing data]
33.	Jordan	0 (2010)	0	0	Awaiting reply to e-mail of 20/11/2012
34.	Kenya	93	0	0	Data contribution planned (assistance provided)
35.	Kyrgyzstan	0	0	1	[Contributing data]
36.	*Latvia	6	3	2	
37.	*Lithuania	4	3	2	
38.	Mexico	145	0	1	[Contributing data]
39.	Могоссо	62	0	1	[Contributing data]
40.	*Netherlands	783	5	6	
41.	New Zealand	121	6	5	[Contributing data]
42.	Nicaragua	2	0	0	Awaiting reply to e-mail of 14/11/2012
43.	*Norway	23	5	3	
44.	Oman	0 (2010)	0	0	Awaiting reply to e-mail of 28/8/2012
45.	Panama	2	0	0	Awaiting reply to e-mail of 23/8/2012
46.	Paraguay	17	0	0	Awaiting reply to e-mail of 6/12/2012
47.	Peru	29	0	0	[Contributing data] Data being processed
48.	*Poland	70	4	6	
49.	*Portugal	5	1	1	
50.	Republic of Korea	587	5	1	[Contributing data]
51.	Republic of Moldova	18	1	1	[Contributing data]
52.	*Romania	35	6	4	
53.	Russian Federation	452	5	5	[Contributing data]
54.	Serbia	-	-	-	[New member of the Union]
55.	Singapore	0	0	0	Awaiting reply to e-mail of 9/10/2012
56.	*Slovakia	16	4	5	
57.	*Slovenia	1	5	4	
58.	South Africa	285	0	2	[Contributing data]
59.	*Spain	61	6	6	
60.	*Sweden	19	5	4	
61.	*Switzerland	72	4	5	
62.	The former Yugoslav Republic of Macedonia	-	0	0	No communication

	Contributor	Number of applications for Plant Breeders' Rights in 2011	Number of new data submissions to the Plant Variety Database in 2011 ²	Number of new data submissions to the Plant Variety Database in 2012 ³	Current situation
63.	Trinidad and Tobago	0	0	0	Awaiting reply to e-mail of 1/11/2012
64.	Tunisia	35 (2010)	0	0	Awaiting reply to e-mail of 23/10/2012
65.	*Turkey	111	3	2	
66.	Ukraine	1,095	0	0	Awaiting reply to e-mail of 29/8/2012
67.	*United Kingdom	49	6	6	
68.	United States of America	1,613	4	5	[Contributing data]
69.	Uruguay	68	0	1	[Contributing data]
70.	Uzbekistan	14	0	0	Awaiting submission following e-mail of 5/2/2013
71.	Viet Nam	52	0	0	Awaiting reply to e-mail of 23/11/2012
72.	OECD		2	1	[Contributing data]

[Annex V follows]

page 1

Part A: UPOV codes amendments to be checked

= original (old) entries

FORTU_JAP

1

old

122 new NO CHANGE

= no change													
No.	old / new	UPOV Code	Hybrid	Parent	Denomination class	Family	Category	Principal botanical name	Other botanical names	English	French	German	Spanish
											-	-	
114	old	SENEC_FIC						Senecio ficoides (L.) Sch. Bip.					
114	new	NO CHANGE						Senecio ficoides (L.) Sch. Bip.	Curio ficoides (L.) P. V. Heath				
115	old	ECHEV_HOO						Echeveria hookeri (Salm-Dyck)	Pachyphytum hookeri (Salm-				
								Lem.	Dyck) A. Berger				
115	new	PACHY_HOO						Pachyphytum hookeri (Salm- Dyck) A. Berger	Echeveria hookeri (Salm-Dyck) Lem.				
116	old	ECHEV HAG											
116	new	PAECH_HAG											
117	old	FORTU_JAP						Fortunella japonica (Thunb.) Swingle					
117	new	NO CHANGE						Fortunella japonica (Thunb.) Swingle	Citrus japonica Thunb.				
118	old	SOLAN_LHA							Lycopersicon esculentum Mill. var. esculentum x Lycopersicon hirsutum L., Lycopersicon lycopersicum (L.) Karst. ex. Farw. x Lycopersicon hirsutum				
118	new	NO CHANGE							Solanum lycopersicum L. x Solanum habroichaites S. Knapp & D.M. Spooner; Lycopersicon esculentum Mill. var. esculentum x Lycopersicon hirsutum L., Lycopersicon lycopersicum (L.) Karst. ex. Farw. x Lycopersicon hirsutum L.				
119	old	PLEUR_OST						Pleurotus ostreatus (Fr.) Quél.					
119	new	NO CHANGE						Pleurotus ostreatus (Jacq.) P. Kumm.	Pleurotus ostreatus (Fr.) Quél.				
120	old	PLEUR_ERY						Quél.	Pleurotus ferulae (Lanzi) X.L. Mao; Pleurotus fuscus Battarra ex Bres.; Pleurotus fuscus var. ferulae Lanzi				
120	new	NO CHANGE						Pleurotus eryngii (DC.) Quél	Pleurotus eryngii (Dcex Fr.) Quél.; Pleurotus ferulae (Lanzi) X.L. Mao; Pleurotus fuscus Battarra ex Bres.; Pleurotus fuscus var. ferulae Lanzi				
121	öld	SETAR_ITA								Foxtail Bristle Grass;			
121	new	NO CHANGE								dwarf setaria; foxtail bristle grass; giant			

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setaria

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Marumikumquat, runde Kumquat Runde Kumquat

NO.	old / new	UPOV Code	Hybrid	Parent	Denomination class	Family	Category	Principal botanical name	Other botanical names	English	French	German	Spanish
123	new	NO CHANGE							Ribes nigrum L. x Ribes uva- crispa L.	Jostaberry		Jostabeere	
124	old	PRUNU_SCH											
124	new	NO CHANGE										Schmitts Kirsche	
125	old	PONCI_TRI										dreiblättrige Bitterorange	
125	new	NO CHANGE							*			Bitterorange	
126	old	PYRUS_PER										mandelblättriger	
												Birnebaum;	
												pfirsichblättrige	
												Birne	
126	new	NO CHANGE										Pfirsichblättrige	
107												Birne	O recelle
127													Grosella
127	new	NO CHANGE							1				Acerola,
128	old	JUNIP SAB							Sabina Mill				Comeraco
128	new	NO CHANGE		L	·				(deleted)	L		L	1
129	old	PRUNU CER											
129	new	DELETED											
130	old	RUDBE				Combretaceae							Grosella
130	new	NO CHANGE				Asteraceae							Acerola,
					 					 		 	Someruco
131	old	RUDBE_FUL				Combretaceae							
131	new	NO CHANGE				Asteraceae							
132	old	RUDBE_HIR				Combretaceae							
132	new	NO CHANGE				Asteraceae							
133	old	RUDBE_HIR_BIC				Combretaceae			·				
133	new					Asteraceae							
134	new/	NO CHANGE				Asteraceae							
135	old					Combretaceae							
135	new	NO CHANGE				Asteraceae							
136	old	PHOTI FRA						Photinia × fraseri Dress	Photinia ×fraseri Dress x				
									Photinia glabra (Thunb.) Franch.				
									& Sav.				
136	new	NO CHANGE							Photinia ×fraseri Dress x				
									Photinia glabra (Thunb.) Franch.				
									& Sav.; Photinia xiraseri Dress x				
									Kalkman				
137		PAEON								Paeony			
137		NO CHANGE								Peony			
138		PAEON_LAC								Chinese Paeony			
138		NO CHANGE								Chinese Peony			
139		PAEON_OFF								Common Paeony			
139		NO CHANGE								Common Peony			
140		PAEON_SUF								Moutan Paeony; Tree			
1.10										Paeony			
140		NO CHANGE							1	Moutan Peony; Tree			
141		BRCYC BCA						Brachychiton bidwillii x	Brachychiton bidwillii x	reony			
								Brachychiton xcarneus	(Brachychiton garrawavae x				
									Brachychiton grandiflorus)				

No.	old / new	UPOV Code	Hybrid	Parent	Denomination class	Family	Category	Principal botanical name	Other botanical names	English	French	German	Spanish
141	1	NO CHANGE					1	hybrids between Brachychiton	Brachychiton bidwillii x	1		1	
								bidwillii and Brachychiton x	Brachychiton xcarneus;				
								carneus	Brachychiton xcarneus x				
1									Brachychiton bidwillii;				
1							1		Brachychiton bidwillii x				
1									(Brachychiton garrawayae x				
1									(Prochychiton grandillorus);				
1									(Diachychiton grandiflorus) x				
									Brachychiton bidwillii				
142		BRCYC CBI											
142		DELETED											
143		GERAN_HWA						Geranium himalayense Klotzch x					
								Geranium wallichianum D. Don					
143		NO CHANGE						hybrids between Geranium	Geranium himalayense x				
								himalayense and Geranium	Geranium wallichianum;				
								wallichianum	Geranium wallichianum x				
144				-			.		Geranium himalayense				+
144													
144										+			
145								Leucadendron salignum					
145	1	NO CHANGE	1	1			1	hybrids between Leucadendron	Leucadendron laureolum x	1		1	
								laureolum and Leucadendron	Leucadendron salignum;				
								salignum	Leucadendron salignum x				
l		 	<u> </u>			 		<u> </u>	Leucadendron laureolum				
146		LEUCD_SLA											
146		DELETED											
147		LOTUS_BMA						Lotus berthelotii x Lotus					
								maculatus					
147		NO CHANGE						nybrids between Lotus bertheloti	Lotus berthelotii x Lotus				
								and Lotus maculatus	I otus bortholotii				
148		LOTUS MBE											
148		DELETED		-	-			.		+		+	+
149		PELAR PZO						Pelargonium peltatum x P.					
								zonale-Hybridae					
149	1	NO CHANGE	1					hybrids between Pelargonium	Pelargonium peltatum x				
								peltatum and Pelargonium	Pelargonium zonale-Hybridae;				
								zonale-Hybridae	Pelargonium ×hortorum x				
									Pelargonium peltatum.				
150		PELAR_ZPE						+		+			+
150		DELETED											
151		PRUNU_ADO						Idomostica					
151		NO CHANGE	1		1			hybrids between Prunus	Prunus armeniaca y Prunus	1	1	1	1
131		NO OTRIOL	1				1	armeniaca and Prunus	domestica: Prunus armeniaca x	1		1	
								domestica	Prunus domestica x Prunus				
									armeniaca; Prunus domestica x				
									Prunus armeniaca; Prunus				
							1		domestica x Prunus domestica x			1	
							1		Prunus armeniaca; Prunus				
1	1						1		domestica x Prunus domestica x			1	
1	1						1		Prunus domestica x Prunus			1	
450									armeniaca				
152			·										
152	-						İ	·					
153							·			ł	+	·	
133	<u></u>		_i	_i		i	.i			.i	-L	.i	. <u></u>

No.	old / new	UPOV Code	Hybrid	Parent	Denomination class	Family	Category	Principal botanical name	Other botanical names	English	French	German	Spanish
154		PRUNU_APS						Prunus avium x P.					
154								pseudocerasus L.					
104		NO CHANGE						and Prunus pseudocerasus	pseudocerasus: Prunus				
	1								pseudocerasus x Prunus avium				
	<u> </u>				<u> </u>								
155		PRUNU_PAV											
155		DELETED	i 		4					i 			
100		PRUNU_SAW											
156		NO CHANGE			1			hybrids between Prunus salicina	Prunus salicina x Prunus				
	1						1	and Prunus armeniaca	armeniaca; Prunus armeniaca x				
	1								Prunus salicina x Prunus				
	İ								armeniaca; Prunus salicina x				
	1						1		salicina: Prunus salicina x				
									Prunus salicina x Prunus				
	<u>i</u>				<u>i</u>		<u> </u>		armeniaca				
157		PRUNU_ASA											
158		PRUNU_SAS											
158		DELETED											
159		PRUNU_SSP											
159		DELETED											
160		PRUNU_DOP						Prunus domestica x Prunus					
160	1	NO CHANGE	1					hybrids between Prunus	Prunus domestica x Prunus	Peach x Plum	Pêcher x prunier	Pfirsich x	Melocotonero x
	1							domestica and Prunus persica	persica; Prunus persica x			Pflaume	Ciruelo
	İ								Prunus domestica; Prunus				
	Ì						1		Prunus porsica				
161		PRUNU PDO											
161	<u> </u>	DELETED											
162		PRUNU_PDP											
162	<u>i</u>	DELETED	İ		ļ		İ		<u>i</u>	i			
163		PRUNU_DPE						persica					
163	<u> </u>	NO CHANGE			1			hybrids between Prunus	Prunus davidiana x Prunus				
								davidiana and Prunus persica	persica; Prunus persica x				
164									Prunus davidiana				
164	1	DELETED	<u>.</u>		<u>.</u>					· · · · · · · · · · · · · · · · · · ·			
165		PRUNU_CMA						Prunus cerasus x Prunus	ı 				
								maackii					
165		NO CHANGE				1	ļ	hybrids between Prunus cerasus	Prunus cerasus x Prunus				
	ļ							and Prunus maackii	Prunus cerasus x				
							1		maackii)				
166		PRUNU_CCM							· · · · · · · · · · · · · · · · · · ·				
166		DELETED			ļ								
167		TAGET_PMM						nagetes patula L. ssp nana x T.					
167		NO CHANGE						hybrids between Tagetes patula	Tagetes patula ssp nana ×				
								and Tagetes minuta	Tagetes minuta × Tagetes				
l	1						1		minuta; Tagetes minuta ×				
l	1						1		ragetes patula ssp. nana x				
168		TAGET_MPM								·			
168	1	DELETED											

No.	old /	UPOV Code	Hybrid	Parent	Denomination	Family	Category	Principal botanical name	Other botanical names	English	French	German	Spanish
	new				class	_						_	
169		VITIS_RVI						Vitis riparia Michx. x V. vinifera L					
169		NO CHANGE						hybrids between Vitis riparia and Vitis vinifera	Vitis riparia x Vitis vinifera; Vitis vinifera x Vitis riparia				
170		VITIS_VRI											
170		DELETED											
171		PASPA_SCR									-		
171		NO CHANGE								bastard millet; creeping paspalum; ditch millet; Indian paspalum; koda grass; kodo millet; kodra millet; scrobic; scrobic paspalum; water couch	paspale de Commerson	Kodohirse	mijo koda; koda- hirs
172		CAMPA_ICA						Campanula isophylla Moretti × Campanula carpatica Jacq.					
172		NO CHANGE						Hybrids between Campanula isophylla and Campanula carpatica	Campanula isophylla × Campanula carpatica; Campanula carpatica x Campanula isophylla				
173		ALOEE						Aloë spec.		1	1		
173		NO CHANGE						Aloe L.			<u> </u>		1
174		BEGON_TUB						Begonia x tuberhybrida Voss	Begonia Tuberhybrida Group				
174		NO CHANGE							Begonia Tuberhybrida Group; Begonia boliviensis A. DC. × Begonia ×tuberhybrida Voss				
175		TILIA_EUR			TALIA								
175		NO CHANGE			TILIA					ļ			

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Part B: New UPOV codes to be checked

Date proposed	Proposer	UPOV Code	Hybrid	Parent	Denomination class	Checking TWP	Checking authority	Family	Category	Principal botanical name	Other botanical names	English	French	German	Spanish
			= existing code /												
			name												
11-Jun-12	CA	VACCI_OVA			VACCI	TWO	CA, BR, ZA,			Vaccinium ovatum Pursh		California-			
							DE, JP, PL,					huckleberry;			
							NZ RU US	,				evergreen- huckleberry			
2-Jul-12	QZ	SENEC_FIC			SENEC	TWO	NL, QZ			Senecio ficoides (L.) Sch. Bip.	Curio ficoides (L.) P. V. Heath	Indoniozofiy			
2-Jul-12	QZ	SOLID_CAN			SOLID	TWO	CA, QZ, DE,	,		Solidago canadensis L.		Canadian goldenrod	; verge d'or du	gewöhnliche	
							IL, JP, NL, BE, AU, CO, EC, US					Harger's goldenrod	Canada	kanadische Goldrute	
2-Jul-12	QZ	MISCA_GIG			MISCA	TWO	QZ, JP, US			Miscanthus ×giganteus J. M. Greef & Deuter ex					
										Hodk. & Renvoize					
2-Jul-12	QZ	FICUS_AME_GUI			FICUS	TWO	QZ, CL, ZA,			Ficus americana Aubl.					
							US ZA			C. C. Berg					
2-Jul-12	QZ	FICUS_AME			FICUS	тю	QZ, CL, ZA, VN, IT, NL,			Ficus americana Aubl.					
2-Jul-12	QZ	HYPER MOS			HYPER	TWO	QZ, BR, ZA,			Hypericum ×moserianum		aoldflower	millepertuis	Bastard-	
							CA, JP, NL, EC,			André		3		Johanniskraut	
2-Jul-12	QZ	ARGYR_FTE		ARGYR_FRU;	ARGYR	TWO	ZA, CA, QZ,			Argyranthemum frutescens	5				
				ARGYR_TEN			AU, US			(L.) Sch. Bip. ×					
										Argyrantnemum teneritae					
2-Jul-12	QZ	ARGYR_FRU	ARGYR_FTE		ARGYR	TWO	BE, ZA, QZ,			Argyranthemum frutescens	à	Boston daisy; Paris	anthémis;	Strauchmargerite	
							DE, IT, JP,			(L.) Sch. Bip.		daisy; Paris	marguerite	_	
							NZ, PL, AU,					marguerite; white			
2- Jul-12	07	ARGYR TEN	ARGYR FTF		ARGYR	TWO				Argyranthemum tenerifae		marguente			
2 001 12	QL	/ Itom_ren	/			1110	AU, US			Humphries					
2-Jul-12	QZ	OTOME_OCU			OTOME	TWO	QZ			Otomeria oculata S. Moore					
2-Jul-12	QZ	OTOME			OTOME	TWO	QZ	Rubiaceae	Plant / Plan	t Otomeria Benth.					
2-Jul-12	QZ	LAMPR_BPO		LAMPR_BIC; LAMPR_POC	LAMPR	тwo	QZ			Lampranthus bicolor (L.) N. E. Br. × Lampranthus pocockiae (L. Bolus) N. E.					
										Br.					
2-Jul-12	QZ	LAMPR_BIC	LAMPR_BPO		LAMPR	TWO	QZ			Lampranthus bicolor (L.) N. E. Br.					
2-Jul-12	QZ	LAMPR_POC	LAMPR_BPO		LAMPR	TWO	QZ			Lampranthus pocockiae (L Bolus) N. E. Br.					
2-Jul-12	QZ					TWO		Aizoaceae	Plant / Plan	t Lampranthus N. E. Br.	Onoidium Sw. v				
2-Aug-12	m TC/Oncidiu					TWO	SG, US	Orchidaceae	Plant / Plan	t xOncidesa nort.	Gomesa R. Br.				
2-Aug-12	m				ZELGI	TWO	GZ, JP, NL, SG, US	Orchidaceae	Plant / Plan	Shaw	Zelenkoa M. W. Chase & N. H. Williams				
4-Jul-12	AU	BANKS_INT			BANKS	тwo	AU			Banksia integrifolia L. f.		coast banksia; honeysuckle-oak; white banksia; white bottlebrush; white- honeysuckle			
4-Jul-12	AU	KUNZE_BAX			KUNZE	тwo	AU, NZ, ZA			Kunzea baxteri (Klotzsch) Schauer					

Date	Proposer	UPOV Code	Hybrid	Parent	Denomination	Checking	Checking	Family	Category	Principal botanical name	Other botanical	English	French	German	Spanish
proposed					class	TWP	authority				names				
27-Jul-12	QZ	MECAR_ACU			MECAR	TWO	QZ, GB, CA,			Mecardonia acuminata					
9-Aug-12	07	PACHY	PAECH		PACHY	TWO	OZ ALL DE	Crassulaceae	Plant / Plant	Pachyphytum Link et al					
57 Kug 12	92		I ALON				NL, US	Chaosalaocae	r lant / r lant	i donyphytam Eink of al.					
9-Aug-12	QZ	PAECH		PACHY; ECHEV	PAECH	TWO	QZ, AU, DE,	Crassulaceae	Plant / Plant	Pachyphytum Link et al. × Echeveria DC					
9-Aug-12	QZ	ECHEV	PAECH		ECHEV	TWO	QZ, AU, DE,	Crassulaceae	Plant / Plant	Echeveria DC.					
4-Jul-12	AU	CARPO GLA			CARPO	TWO	AU			Carpobrotus glaucescens					
										(Haw.) Schwantes					
4-Jul-12	AU	CARPO			CARPO	TWO	AU	Aizoaceae	Plant / Plant	Carpobrotus N. E. Br.					
4-Jul-12	AU	CORRE_DRE		CORRE_DEC;	CORRE	TWO	AU			Correa decumbens F.					
				CORRE_REF						Muell. × Correa reflexa (Labill.) Vent.					
4-Jul-12	AU	CORRE_DEC	CORRE_DRE		CORRE	TWO	AU			Correa decumbens F. Muell.					
4-Jul-12	AU	CORRE_REF	CORRE_DRE		CORRE	TWO	AU			Correa reflexa (Labill.)		common correa;		australische	
										Vent.		native-fuchsia		Fuchsie; gemeine Correa	
4-Jul-12	AU	RICNO_CYA			RICNO	TWO	AU			Ricinocarpos cyanescens Müll. Arg.					
4-Jul-12	AU	WESTR_GLA			WESTR	TWO	AU			Westringia glabra R. Br.					
27-Jul-12	QZ	OENOT_FMA			OENOT	TWO	QZ, CA, GB,			Oenothera fruticosa L. ×					
						-	JP, NL, BE			O. macrocarpa Nutt.					
27-Jul-12	QZ	OENOT_FRU			OENOT	TWO	QZ, CA, GB,			Oenothera fruticosa L.		narrow-leaf evening-			
							JP, NL, BE					sundrops: sundrops			
												sunarops, sunarops			
27-Jul-12	QZ	OENOT MAC			OENOT	TWO	QZ, CA, GB,			Oenothera macrocarpa					
							JP, NL, BE			Nutt.					
27-Jul-12	QZ	ALHAW_AMA		ALOEE_ARI;	ALHAW	TWO	QZ, ZA, NL,			Aloe aristata Haw. ×	Aloe aristata Haw. ×				
				HAWOR_MAR			JP			Haworthia margaritifera	Haworthia				
										(L.) Haw.	margaritifera (L.)				
27- Jul-12	07	ALOFE ARI	αι μαινγ αινιά			TWO	OZ ZA NI			Aloe aristata Haw	naw.	lace aloe: torcholant			
27-Jul-12	QZ	HAWOR MAR	ALHAW AMA		HAWOR	TWO	QZ, JP			Haworthia margaritifera		lace aloe, torcripiant			
							,			(L.) Haw.					
27-Jul-12	QZ	ALHAW		ALOEE; HAWOR	ALHAW	TWO	QZ, ZA, NL, JP	Xanthorrhoeacea e	Plant / Plant	Aloe L. × Haworthia Duval					
27-Jul-12	QZ	ALOEE	ALHAW		ALOEE	TWO	QZ, ZA, NL	Xanthorrhoeacea e	Plant / Plant	Aloe L.					
27-Jul-12	QZ	HAWOR	ALHAW		HAWOR	TWO	QZ, JP	Xanthorrhoeacea e	Plant / Plant	Haworthia Duval					
27-Jul-12	QZ	PYRUS_BPY			PYRUS	TWF	QZ, AL, BE,			Pyrus xbretschneideri					
							CN, PA, ZA,			Rehder × Pyrus pyrifolia					
							TR, AU, CL,			(Burm. f.) Nakai					
27- Jul-12	07	DVDIIG BDE			DVDLIS		RR, US			Pyrus ybrotschpoidori		Chinoso white poor:		woiße Birpe	
27-001-12	QZ	I INCO_DICE			1 1100		CN, PA, ZA,			Rehder		white pear		Wellse Diffie	
							TR			i tondor		inito podi			
27-Jul-12	QZ	PYRUS_PYR			PYRUS	TWF	QZ, AL, BE,			Pyrus pyrifolia (Burm. f.)		Asian pear; Chinese	poirier japonais	China-Birne; Nashi-	pera
							CN, PA, ZA,			Nakai		pear; Chinese sand		Birne;	
							TR, AU, CL,					pear; Japanese pear;		Sandbirnbaum	
							KR, US					nashi; nashi pear;			
												pear			
												pear			
16-Aug-12	CA	CPHLT_OCC		1	CPHLT	TWO	CA, NL			Cephalanthus occidentalis		button-willow;			
Ĭ									1	L.		buttonbush; common			
												buttonbush; honey-			
												bells			
L									I			L			L

Date proposed	Proposer	UPOV Code	Hybrid	Parent	Denomination class	Checking TWP	Checking authority	Family	Category	Principal botanical name	Other botanical names	English	French	German	Spanish
6-Sep-12	AU	LOMAN MON			LOMAN	TWO	ALL OZ ZA			I omandra montana (R					
0.000 12	1.0	2011/11/2			2011/11		NZ, GB			Br.) L. R. Fraser & Vickery					
6-Sep-12	AU	LOMAN_MUL			LOMAN	TWO	AU, QZ, ZA,			Lomandra multiflora (R. Br.) Britten					
12-Sen-12	CA	VIBUR BRA			VIBUR	TWO	CA BE OZ			Viburpum bracteatum					
12-060-12	0A	VIDOIT_DIXA			VIDOR	1110	FR, IL, NL,			Rehder					
11.0 10	<u></u>	0.411.0			0411.0		RU, SE, US	1	Dissi (Dissi	O all'a anna d					
14-Sep-12	CA				CALLC	TWF	CA, JP	Lamiaceae	Plant / Plant	Callicarpa L.		Karaan haunuaad			
14-Sep-12	CA	BUXUS_SIN_INS			BUXUS	1000	CA, CN, DE			H. Wilson) M. Cheng var. insularis (Nakai) M. Cheng		Korean boxwood			
14-Sep-12	CA	BUXUS_SIN			BUXUS	TWO	CA, CN, DE			Buxus sinica (Rehder & E.		Chinese boxwood;			
-										H. Wilson) M. Cheng		Korean boxwood			
1-Oct-12	TWO 2012	PAEON_QIU			PAEON	TWO	CN, TR, NL,			Paeonia qiui Y. L. Pei & D.					
1-Oct-12	TWO 2012	PAFON US			PAEON	TWO	CN TR NI			Paeonia iishanensis T					
1-001-12	100 2012	TALON_00			I ALON	1.00	07 US			Hong & W Z Zhao					
1-Oct-12	TWO 2012	PAEON OST			PAEON	TWO	CN, TR, NL,			Paeonia ostii T. Hong & J.					
							QZ, US			X. Zhang					
1-Oct-12	TWO 2012	PAEON ROC			PAEON	TWO	CN, TR, NL,			Paeonia rockii (S. G. Haw				gefleckte Strauch-	
		_					QZ, US			& Lauener) T. Hong & J. J.				Pfingstrose	
										Li ex D. Y. Hong				•	
1-Oct-12	TWO 2012	PAEON_DEL			PAEON	TWO	CN, TR, NL, QZ, US			Paeonia delavayi Franch.		tree peony; yellow tree peony		Delavays Strauch- Pfingstrose; gelbe	
1-Oct-12	TWO 2012	PAEON_LUD			PAEON	TWO	CN, TR, NL,			Paeonia ludlowii (Stern &				Thingstrose	
1.0-1.10	0.1				DADDO	THE	QZ, US			Taylor) D. Y. Hong					
1-Oct-12	CA	PARRO_PER			PARRO	TWO	CA			Parrotia persica (DC.) C.					
1.Oct-12	CA.					TWO	CA	Hamamolidacoao	Plant / Plant	A. Mey.					
8-Oct-12		SVRIN PUR PAT			SVRIN	TWO		Tamamenuaceae	Fiant/Fiant	Svringa pubescens Turcz					
0.000.12							RU, QZ			subsp. patula (Palib.) M. C Chang & X. L. Chen					
9 Oct 12	C 4				DEUTZ	TWO	A1.1			Doutzio gracilio Sichold 8					
8-001-12	CA	DEUTZ_GRO		DEUTZ_GRA,	DEUIZ	1000	ALL								
				02012_1000						(Lemoine) Rehder					
8-Oct-12	CA	DEUTZ GRA	DEUTZ GRO		DEUTZ	TWO	ALL			Deutzia gracilis Siebold &		Japanese			
										Zucc.		snowflower; slender			
8-Oct-12	CA	DEUTZ_ROS	DEUTZ_GRO		DEUTZ	TWO	ALL			Deutzia ×rosea (Lemoine)		doutsia			
22 Aug 12	тр	DANCE MAR			PANCE	TWO	тр		-	Render		soo daffodil			
22-Aug-12	TR	PANCR			PANCR	TWO	TR	Amanyllidaceae	Plant / Plant	Pancratium I		Sea-ualiouli			
22-Aug-12	TR	CRATA RHI			CRATA	TWO	TR CZ HU	Amaryindaceae	Tiant/Tiant	Crataeous rhipidophylla	Crataegus				
22 / lug 12							MX, US, DE			Gand.	oxyacantha L.				
22-Aug-12	TR	CITRO_TLI		PONCI_TRI; CITRU_LIM	CITRO	TWF	TR, BR, QZ, ES, JP, AU, CL, NZ, US, UY			Poncirus trifoliata (L.) Raf. × Citrus limon (L.) Burm. f.					
22-Aug-12	TR	PONCI_TRI	CITRO_TLI		PONCI	TWF	TR, BR, QZ, ES, JP, AU, CL, NZ, US, UY			Poncirus trifoliata (L.) Raf.		Golden Apple; Hardy orange; hardy- orange; Japanese bitter-orange; trifoliate-orange; Trifoliate Orange; Trifoliate-orange	/ Oranger trifolié; oranger trifoliolé; poncirus; Orangier trifoliolé; Poncirus	Dreiblättrige Bitterorange; dreiblättrige Bitterorange; Dreiblättrige Orange	Naranjo trébol; naranjo trébol; Naranjo trifoliado

Date	Proposer	UPOV Code	Hybrid	Parent	Denomination	Checking	Checking	Family	Category	Principal botanical name	Other botanical	English	French	German	Spanish
proposed	70				class	TWP	authority			0	names				
22-Aug-12	TR	CITRU_LIM	CITRO_TLI		CITRU	TWF	TR, BR, QZ, ES, JP, AU, CL, NZ, US,			Citrus limon (L.) Burm. f.		lemon	citronnier; limonier	Limone; Sauerzitrone; Zitrone	limón; limonero
15-Nov-12	TG/Tomato	SOLAN LYC	SOLAN LPE:		Class 4.2	TWV	ALL			Solanum lycopersicum L.		cherry tomato:	tomate: tomato	Kirschtomate:	tomate:
	root stock		SOLAN_LCH									tomato	cerise	Tomate	tomatera; tomatillo
14-Nov-12	TG/Tomato root stock	SOLAN_PER	SOLAN_LPE		Class 4.2	TWV	MK, JP			Solanum peruvianum (L.) Mill.					
14-Nov-12	TG/Tomato root stock	SOLAN_LPE		SOLAN_LYC; SOLAN_PER	Class 4.2	TWV	ALL			Solanum lycopersicum L. x Solanum peruvianum (L.) Mill.					
14-Nov-12	TG/Tomato root stock	SOLAN_CHE	SOLAN_LCH		Class 4.2	TWV	МК			Solanum cheesmaniae (L. Ridley) Fosberg		Galápagos tomato			tomatillo
14-Nov-12	TG/Tomato root stock	SOLAN_LCH		SOLAN_LYC; SOLAN_CHE	Class 4.2	TWV	ALL			Solanum lycopersicum L. x Solanum cheesmaniae (L. Ridley) Fosberg					
17-Oct-12	QZ	IRISS_GER			IRISS	тwo	QZ, BE, ZA, TR			Iris ×germanica L.		common iris; flags; Florentine iris; German iris; orris; orris-root	iris de Florence	deutsche Schwertlilie; florentinische Schwertlilie	lirio blanco; lirio de Florencia
17-Oct-12	QZ	PHILA_DMI		PHILA_DEL; PHILA_MIC	PHILA	тwo	QZ, SE, US			Philadelphus delavayi L. Henry × Philadelphus microphyllus A. Gray					
17-Oct-12	QZ	PHILA_DEL	PHILA_DMI		PHILA	TWO	QZ, SE, US			Philadelphus delavayi L. Henry					
17-Oct-12	QZ	PHILA_MIC	PHILA_DMI		PHILA	TWO	QZ, SE, US			Philadelphus microphyllus A. Gray		desert mock orange; littleleaf mock orange			
17-Oct-12	QZ	HLNTS_DEC			HLNTS	TWO	QZ, AL, MK			Helianthus decapetalus L.		ten-petals sunflower; thin-leaf sunflower	hélianthe à dix rayons	Stauden- Sonnenblume	
17-Oct-12	QZ	MECAR_PRO			MECAR	TWO	QZ, GB, CA, JP, US			Mecardonia procumbens (Mill.) Small		baby jump-up			
17-Oct-12	QZ	MECAR_ACU			MECAR	TWO	QZ, GB, CA, JP, US			Mecardonia acuminata (Walter) Small					
17-Oct-12	QZ	FICUS_AME_GUI			FICUS	TWO	CL, QZ, IT, NL, ZA, US, VN			Ficus americana Aubl. subsp. guianensis (Ham.) C. C. Berg					
5-Nov-12	AU	PLTCR_SUP			PLTCR	TWO	AU, QZ, NL			Platycerium superbum de Jonch. & Hennipman		staghorn fern			
5-Nov-12	AU	EUCAL_AMP			EUCAL	TWO	AU, BR, CN, ZA, IL			Eucalyptus amplifolia Naudin		cabbage gum			
17-Oct-12	QZ	PENNI_PSQ		PENNI_PUR; PENNI_SQU	PENNI	TWO	QZ, BR, OM, VN, US			Pennisetum purpureum Schumach. × Pennisetum squamulatum Fresen.					
17-Oct-12	QZ	PENNI_PUR	PENNI_PSQ		PENNI	тwo	QZ, BR, OM, VN, US			Pennisetum purpureum Schumach.		barner grass; elephant grass; Merker grass; Napier grass	napier	Elefantengras	hierba elefante; pasto elefante
17-Oct-12	QZ	PENNI_SQU	PENNI_PSQ		PENNI	TWO	QZ			Pennisetum squamulatum Fresen.					
5-Nov-12	AU	DIANE_CON			DIANE	TWO	QZ, ZA, NL, GB, JP			Dianella congesta R. Br.					
28-Nov-12	ZA	PRUNU_CER			PRUNU	TWF	ALL			Prunus cerasus L.		dwarf cherry; Maraschino cherry; morello cherry; pie cherry; sour cherry; tart cherry	cerisier acide; griottier	Maraschino-Kirsche; Sauerkirsche; Sauerkirschenbaum ; Weichsel	cerezo ácido; guindo
28-Nov-12	ZA	COREO_PUB			COREO	TWO	ZA, CA, QZ, PL, KR, GB, AU, NZ, US			Coreopsis pubescens Elliott					

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28-Nov-12	ZA	PORTR_AFR			PORTR	TWO	ZA			Portulacaria afra (L.) Jacq.	elephant-bush	pourpier en arbre	Speckbaum	
28-Nov-12	ZA	PORTR			PORTR	TWO	ZA	Didiereaceae	Plant / Plant	Portulacaria Jacq.				
5-Dec-12	QZ	AMARI			AMARI	TWO	QZ	Amaryllidaceae	Plant / Plant	× Amarine Sealy				
12-Dec-12	CA	CAMPA_ICA		CAMPA_ISO;	CAMPA	TWO	CA, QZ, GB,			Campanula isophylla				
				CAMPA_CAR			AU			Moretti × Campanula				
										carpatica Jacq.				
12-Dec-12	CA	CAMPA_ISO	CAMPA_ICA		CAMPA	TWO	CA, QZ, GB			Campanula isophylla	falling-stars; Italian		Stern-Glockenblume	
										Moretti	bellflower; star-of-			
											Bethlehem			
12-Dec-12	CA	CAMPA_CAR	CAMPA_ICA		CAMPA	TWO	CA, QZ, AU			Campanula carpatica	Carpathian harebell;	campanule des	Karpaten-	
										Jacq.	tussock bellflower	Carpates	Glockenblume	
19-Dec-12	CA	NEPET_FAA			NEPET	TWO; TWV	CA, US			Nepeta ×faassenii	catmint	chataire; herbe aux	blaue Katzenminze;	
										Bergmans ex Stearn		chats	Blauminze	
2-Jan-13	AU	MACPI_FUL			MACPI	TWO	AU			Macropidia fuliginosa	black kangaroo-paw			
										(Hook.) Druce				
2-Jan-13	AU	MACPI			MACPI	TWO	AU	Haemodoraceae	Plant / Plant	Macropidia J. Drumm. ex				
										Harv.				
14-Jan-13	QZ	CLEMA_COU			CLEMA	TWO	QZ, BE, ZA,			Clematis courtoisii Hand				
							CA, DE, JP,			Mazz.				
							NL, NZ, PL,							
							KR, GB							
14-Jan-13	QZ	LIGUS_OBT			LIGUS	TWO	QZ, DE, HU,			Ligustrum obtusifolium	Amur privet			
							US			Siebold & Zucc.				
14-Jan-13	QZ	AMARI_TUB			AMARI	TWO	QZ			×Amarine tubergenii Sealy				
14-Jan-13		ASTLB			ASTLB	TWO	QZ	Xanthorrhoeacea	Plant / Plant	Astroloba Uitewaal				
								е						
14-Jan-13	QZ	ASTLB_SPI			ASTLB	TWO	QZ			Astroloba spiralis (L.)				
										Uitewaal				
14-Jan-13	QZ	ARTHR_CAN			ARTHR	TWO	QZ, NL			Arthropodium candidum				
										Raoul				
14-Jan-13	QZ	MANDE_SPL			MANDE	TWO	QZ, ZA, AU,			Mandevilla splendens				
							CA, JP, NL,			(Hook. f.) Woodson				
							NZ							
14-Jan-13	QZ	PEPER_PRO			PEPER	TWO	QZ, NL, US,			Peperomia prostrata B. S.				
							JP			Williams				
14-Jan-13	QZ	CLEMA_CAD			CLEMA	TWO	ALL			Clematis cadmia Buch				
										Ham. ex Hook. f. &				
										Thomson				
14-Jan-13	QZ	SILEN_ARK			SILEN	TWO	QZ, NL, JP,			Silene xarkwrightii (Heydt) Lychnis xarkwrightii	Arkwright's campion			
							US, GB		1	hort., nom. inval. Heydt				
14-Jan-13	QZ	CAREX_PHY			CAREX	TWO	QZ, DE, NL,		1	Carex phyllocephala T.				
							US, JP		1	Koyama				
14-Jan-13	QZ	ACTAE_RSI		ACTAE_RAC;	ACTAE	TWO; TWV	QZ, DE, US			Actaea racemosa L. ×				
				ACTAE_SIM						Actaea simplex (DC.)				
										Wormsk. ex Prantl				
14-Jan-13	QZ	ACTAE_RAC	ACTAE_RSI		ACTAE	TWO; TWV	QŽ, DE, US		1	Actaea racemosa L. Cimicifuga racemosa	Black cohosh; Black		Lanzen-Silberkerze	
										(L.) Nutt.	snakeroot			
14-Jan-13	QZ	ACTAE_SIM	ACTAE_RSI		ACTAE	TWO; TWV	QŽ, DE, US		1	Actaea simplex (DC.)				
										Wormsk. ex Prantl				
7-Feb-13	TWA 2012	SOLAN_TUB_AND			CLASS 4.1	TWA	ALL		1	Solanum tuberosum L.	limeña potato; yellov	/		andigena; papa
									1	subsp. andigenum (Juz. &	potato			amarilla
	1								1	Bukasov) Hawkes				
31-Jan-13	IL	FERUL_TIN			FERUL	TWO	IL .		1	Ferula tingitana L.	downy ash; green		rödask	
									1		ash; red ash			
31-Jan-13	IL	FRAXI_UHD			FRAXI	TWO	IL, CN, NL		1	Fraxinus uhdei (Wenz.)	shamel ash			fresno
									1	Lingelsh.				L

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31-Jan-13	IL	PISTA_LEN			PISTA	TWO	IL, ZA, TR, US, QZ			Pistacia lentiscus L.		Chios mastictree; lentiscus; lentisk; mastic; masticshrub; mastictree	arbre au mastic; lentisque	Mastix-Pistazie; Mastixbaum; Mastixstrauch	almácigo; lentisco
15 Eab 12	۸D	SABAC			SARAC	TWO	AR	Solonooooo	Diant / Diant	Saraaha Buiz & Day					
18-Feb-13	CA	VIBUR_DIL			VIBUR	TWO	CA, BE, QZ, FR, RU, IL, NL, SE, US	Solanaceae		Viburnum dilatatum Thunb		linden viburnum			
19-Feb-13	NZ	PYRUS_PUS		PYRUS_PYR; PYRUS_USS	PYRUS	TWF	NZ, AL, BE, CN, PA, ZA, TR, AU, CL, KR, US, RU, CA			Hybrids between Pyrus pyrifolia and Pyrus ussuriensis	Pyrus pyrifolia (Burm. f.) Nakai × Pyrus ussuriensis Maxim.				
19-Feb-13	NZ	PYRUS_PYR	PYRUS_PUS		PYRUS	TWF	NZ, AL, BE, CN, PA, ZA, TR, AU, CL, KR, US			Pyrus pyrifolia (Burm. f.) Nakai		Asian pear; Chinese pear; Chinese sand pear; Japanese pear nashi; nashi pear; Oriental pear; sand pear	poirier japonais ;	China-Birne; Nashi- Birne; Sandbirnbaum	pera
19-Feb-13	NZ	PYRUS_USS	PYRUS_PUS		PYRUS	TWF	NZ, AL, BE, CN, PA, ZA, TR, RU, CA			Pyrus ussuriensis Maxim.		Harbin pear; Ussurian pear		Ussuri-Birne	
1-Mar-13	CA	SALIX_VEU		SALIX_VIM; SALIX_EUE	SALIX	тwo	ALL			Salix viminalis × Salix ×euerata	Salix viminalis L. × (Salix sachalinensis F. Schmidt × Salix mivabeana Seemen)				
1-Mar-13	CA	SALIX_VIM	SALIX_VEU		SALIX	TWO	DK, QZ, DE, NL, NO, PL, RU, SE, GB			Salix viminalis L.		basket willow; common osier; hemp willow: osier	saule des vanniers	Hanfweide; Korbweide	mimbre; mimbrera; salquero blanco
1-Mar-13	CA	SALIX_EUE	SALIX_VEU		SALIX	TWO	CA			Salix ×euerata Kimura	Salix udensis × Salix miyabeana				
23-Feb-13	PL	SPIRA_CIN			SPIRA	TWO	PL, CA, CZ, JP, NL, QZ, GB, US			Spiraea ×cinerea Zabel					
25-Feb-13	QZ	ANEMO_HYB			ANEMO	TWO	BE, QZ, JP, DE, NL, RU			Anemone ×hybrida Paxton		Japanese anemone			-
25-Feb-13	QZ	ASPIL_MON			ASPIL	TWO	QZ			Aspilia montevidensis (Spreng.) Kuntze					
25-Feb-13	QZ	ASPIL			ASPIL	TWO	QZ	Asteraceae	Plant / Plant	Aspilia Thouars					
25-Feb-13	QZ	HELLE_HYB			HELLE	тwo	QZ, BE, NL, NZ, GB, JP, US			Helleborus ×hybridus hort. ex Voss		garden hellebore; hybrid hellebore		Garten-Nieswurz	
25-Feb-13	QZ	KOELE_GLA			KOELE	TWO	QZ, NL, ZA			Koeleria glauca (Spreng.) DC.					
25-Feb-13	QZ	NEPEN_AVE		NEPEN_AMP; NEPEN_VEN	NEPEN	тwo	QZ, NL, BE			Hybrids between Nepenthes ampullaria and Nepenthes ventricosa	Nepenthes ampullaria × Nepenthes ventricosa				
25-Feb-13	QZ	NEPEN_AMP	NEPEN_AVE		NEPEN	TWO	QZ, NL, BE			Nepenthes ampullaria Jacl	¢				
25-Feb-13	QZ	NEPEN_VEN	NEPEN_AVE		NEPEN	TWO	QZ, NL, BE			Nepenthes ventricosa Blanco					
25-Feb-13	QZ	POPUL_MAX			POPUL	тwo	QZ, AR, BE, CN, DE, HU, JP, RU, NZ, ES			Populus maximowiczii A. Henry		Japanese balsam poplar; Japanese poplar		Maximowiczs Pappel	
25-Feb-13	QZ	TILIA_EUR			TALIA	тwo	QZ, BE, CZ, DE, HU, GB, US			Tilia ×europaea L.		common lime; European linden; lime	tilleul commun	holländische Linde	

Date .	Proposer	UPOV Code	Hybrid	Parent	Denomination	Checking	Checking	Family	Category	Principal botanical name	Other botanical	English	French	German	Spanish
proposed	07	RECON RDE		RECON ROL	Class	TWO	authority			Hybrida batwaan Bagania	names Regenie beliviensie				
20-Feb-13	QZ	BEGON_BPE		BEGON PEN	BEGON					boliviensis and Begonia					
										pendula	nendula Ridl				
							00,07			pondula	pondulu r tidii				
25-Feb-13	QZ	BEGON_BOL	BEGON_BPE		BEGON	TWO	QZ, CN, ZA,			Begonia boliviensis A. DC					
							VN, AU, NZ,			-					
							US, CA								
25-Feb-13	QZ	BEGON_PEN	BEGON_BPE		BEGON	TWO	QZ, CN, US			Begonia pendula Ridl.					
25-Feb-13	QZ	ECRUD_PHI		ECNCE_PUR;		TWO	QZ, CA, PL,			Echinacea purpurea (L.)					
				RUDBE_HIR			AU, US, RO,			Moench x Rudbeckia hirta					
05 5 4 40	07	FONOE BUD			FONOF	THO	SK, DE								
25-Feb-13	QZ	ECNCE_PUR	ECRUD_PHI		ECNCE	TWO	QZ, CA, PL,			Echinacea purpurea (L.)		Eastern purple-			
							AU, US, KU,			woench		conellower			
25-Eeb-13	07	RUDBE HIR	ECRUD PHI		RUDBE	TWO				Rudbeckia birta I		Black-eved Susan:	Rudheckia	Sonnenhut	
2010010	QL	NODDE_IMIN	Lonob_I III		RODDE		Q2, D1					Cone Flower	Rudbeond	Connormat	
25-Feb-13	QZ	ECRUD		ECNCE; RUDBE	ECRUD	TWO	QZ, NL, NZ,	Asteraceae	Plant / Plant	t Echinacea × Rudbeckia					
							RO, GB, JP,								
							CA, US, DE,								
							JP, HU, FR,								
							RU						,		
25-Feb-13	QZ	ECNCE	ECRUD		ECNCE	TWO	QZ, NL, NZ,	Asteraceae	Plant / Plant	Echinacea Moench.		Echinacea	Échinacée	Igelkopf	
							RO, GB, JP,								
05 5 4 40	07	011005	500010		DUDDE	THO	CA, US					0 5			
25-Feb-13	QZ	RUDBE	ECRUD		RUDBE	TWO	QZ, DE, JP,	Asteraceae	Plant / Plant	Rudbeckia L.		Cone Flower	Кидрескіа	Sonnennut	
							RUUS								
7-Mar-13	AU	ACACL SAL			ACACI	TWO	AU OZ FR			Acacia saligna (Labill.) H		blue-leaf wattle			
i mai to		/ 10/ 101_0/ 12			/ 10/ 10/		NZ. IT. NL.			L. Wendl.		golden-wreath wattle			
							US					orange wattle, Port	·		
												Jackson wattle, Port			
												Jackson-willow,			
												silver wattle, weeping	1		
												wattle, willow wattle,			
												Western Australian			
												golden wattle			
7-Mar-13	AU	VIBUR ODO			VIBUR	TWO	AU, BE, QZ,			Viburnum odoratissimum					
	-				-		FR, IL, NL,			Ker Gawl.					
							RU, CA, US								
7-Mar-13	AU	SCAEV_ALB			SCAEV	TWO	AU, QZ, ZA,			Scaevola albida (Sm.)					
							DE, NL, NZ,			Druce					
							US								
20-Mar-13	VN	CRINU_LAT			CRINU	TWO	VN, ZA, NL			Crinum latifolium L.			I		

[End of Annex V and of document]