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TWA/33/3
ORIGINAL: English
DATE: June 18, 2004

UPOV

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

TECHNICAL WORKING PARTY FOR AGRICULTURAL CROPS

Thirty-Third Session
Poznań, Poland, June 28 to July 2, 2004

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 Plant Variety Database (UPOV-ROM), the GENIE database and the UPOV Code System and to identify where the input of the Technical Working Party for Agricultural Crops (TWA) has been requested by the Technical Committee (TC).

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

Background Documents (chronological order)

TC/39/13: UPOV Information Databases (considered by the TC in April, 2003)

Annex I: List of taxa (approx. 7,000) with proposed UPOV codes (botanical name order)
Annex II: Annex I sorted by UPOV code order

TC/39/14-CAJ/47/5: Review of UPOV-ROM Plant Variety Database

TWV/37/6: UPOV Information Databases

Annex I: List of taxa relevant to TWV, selected from TC/39/13 Annex I by TWV Chairman (botanical name order)
Annex II: List of taxa relevant to TWV, selected from TC/39/13 Annex I by TWV Chairman (UPOV code order)

TWA/32/3: UPOV Information Databases

Annex I: List of taxa relevant to TWA, selected from TC/39/13 Annex I by TWA Chairman (botanical name order)
Annex II: List of taxa relevant to TWA, selected from TC/39/13 Annex I by TWA Chairman (UPOV code order)

TWO/36/3: UPOV Information Databases

Annex I: List of taxa relevant to TWO, selected from TC/39/13 Annex I by TWO Chairman (botanical name order)
Annex II: List of taxa relevant to TWO, selected from TC/39/13 Annex I by TWO Chairman (UPOV code order)

TWF/34/3: UPOV Information Databases

Annex I: List of taxa relevant to TWF, selected from TC/39/13 Annex I by TWF Chairman (botanical name order)
Annex II: List of taxa relevant to TWF, selected from TC/39/13 Annex I by TWF Chairman (UPOV code order)
Annex III: New UPOV codes proposed by TWF Chairman

TC/40/6-CAJ/49/4: UPOV Information Databases (considered by the TC in March 2004, and by the CAJ in April 2004)

Annex I: Proposed modifications to the UPOV codes proposed in document TC/39/13 Annex I (botanical name order)
Annex II: Proposed modifications to the UPOV codes proposed in document TC/39/13 Annex I (UPOV Code order)
Annex III: Unchecked entries in document TC/39/13 Annexes I and II
Annex IV: Additional entries for taxa not included in TC/39/13 Annexes I and II (presented in both botanical and UPOV code order)

UPOV CODE SYSTEM

2. At its thirty-ninth session held in Geneva from April 7 to 9, 2003, the TC agreed, on the basis of document TC/39/13, to the following code construction for the UPOV Code System:

(a) an alphabetic element of five letters (e.g. XXXXX) indicating thegenus ;

(b) a three-letter element (e.g. YYY) indicating the species;

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

thus, XXXXX_YYY_ZZ1

(d) in all cases, the five-letter genus code is to be provided, but the three-letter species code and the sub-specific code are only provided where necessary.

3. The following work program for the development of the UPOV Code System was agreed by the TC at its thirty-ninth session:

(a) the TC to invite the TWPs, the WG-PVD and the WG-VD to examine the codes provided in this document, during their meetings in 2003, and make their recommendations on the suitability of the codes;

(b) the Office of the Union (the Office) to maintain the current database, adding new taxa and codes as required, including the addition of codes for taxa contained in the UPOV-ROM which are not already included in the database;

(c) the Office to prepare a document, explaining this approach, for consideration by the CAJ at its forty-eighth session, to be held in Geneva on October 20 and 21, 2003;

(d) the Office to modify, where necessary, the UPOV codes on the basis of the input from the TWPs, WG-PVD, WG-VD and CAJ, and present a document for consideration by the TC at its fortieth session to be held in spring 2004;

(e) subject to comments received from the TC and CAJ, the Office to make the necessary preparations for contributors to use the UPOV Code System, starting in Summer 2004.

4. The CAJ considered document CAJ/48/4 at its forty-eighth session, held in Geneva on October 20 and 21, 2003. It agreed to the approach for the development of a UPOV code and the work program for the development and introduction of the proposed UPOV code, as set out in paragraph 16 of document CAJ/48/4, and the proposal for the development of the GENIE database.

5. The WG-PVD did not meet in October 2003 and, therefore, has not commented on document TC/39/13. However, all members of the WG-PVD, who are also members of the TC and CAJ, have had an opportunity to comment on the document via these committees.

Recommendations on the Suitability of the Codes Proposed in Document TC/39/13

6. With regard to recommendations from the TWPs and the WG-VD on the suitability of the codes in document TC/39/13, Annex I and Annex II, the following comments were received:

(a) Inter-generic and inter-specific codes: Use of the symbol "X"

7. The TWA noted that inter-generic hybrids used the letter "X" as the fifth letter in the genus element of the UPOV code (e.g. Festulolium: UPOV code "FESTX," Triticale: UPOV code "TRITX"). At the WG-VD, and in subsequent comments, the rapporteur of the International Code of Nomenclature for Cultivated Plants (ICNCP) noted that:

> "the multiplication sign 'X' is used in botany as an optional device to indicate hybridity. It 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. Therefore, I would strongly suggest that you do not use the letter 'X' in your codes."

8. The TC agreed to avoid the use of the letter "X" to indicate hybrids and the relevant codes have been amended accordingly.

(b) Inter-generic and inter-specific codes: Providing a UPOV code

9. It was noted by some experts that breeding developments can result in inter-generic hybrids which could result in "grey areas" between genera.

10. The TC 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 does not exist, a code will 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.

11. Following the TC session, a further possibility to address hybrid genera (and species) has been put forward by the WIPO IT expert developing the GENIE database: 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.

(c) Multiple-ranked names: *Brassica* and *Beta*

12. With regard to "multiple-ranked names", in relation to *Brassica* and *Beta*, the rapporteur of the ICNCP commented that:

> "Use of names such as *Beta vulgaris* subsp. *cicla* var. *flavescens* should be avoided […]. The International Code of Nomenclature for Cultivated Plants in its 1995 and 2004 editions, promulgates using *Beta vulgaris* Flavescens Group which equates to *Beta vulgaris* Swiss Chard Group (in English). Your UPOV code could thus be BETAA_VUL_FG.
>
> "Similarly, *Brassica oleracea* Gemmifera Group (BRASS_OLE_GG) (based on *B. oleracea* var. *gemmifera* would equate to *Brassica oleracea* Brussels Sprout Group (in English) and *B. oleracea* Groupe du Chou de Bruxelles (in French) and *B. oleracea* Rosenkohl Gruppe (in German) etc.
>
> "In fact these names could be shortened further since the epithets of infraspecific ranked names are always unique. Thus *Beta* Flavescens Group will always equate to Swiss Chard and *Brassica* Gemmifera Group will always equate to Brussels Sprout. You may therefore wish to consider using the formats [BETAA_FLA_GP] and [BRASS_GEM_GP] (the last two letters would indicate that you [are] using the Group method, especially if you ensure that the _GP combination is not used elsewhere in the UPOV Codes: it does not appear in the version you sent me).
>
> "This simplified but accurate naming system is becoming more widely adopted by users of plant names."

The Chairman of the TWV expressed his support for the ICNCP comments.

13. The TC noted that the proposal from the rapporteur of the International Code of Nomenclature for Cultivated Plants (ICNCP) 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 the agreement of codes, it agreed that the Office, in conjunction with the chairmen of the TC, TWA and TWV, should develop a proposal for consideration by the TWA, 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.

14. The Office has developed two options for simplifying the UPOV codes for *Beta* and *Brassica* In both options, numbers are used for the groups to indicate that a group approach is being taken.

Option 1 (Groups within a species)

Groups are made within a species and the UPOV code for groups within the same species will all have the same root e.g.:

Botanical name	Group name	UPOV code
Brassica oleracea L. convar. *capitata* (L.) Alef. var. *alba* D.C	Brassica oleracea (White Cabbage Group)	BRASS_**OLE**_05
Brassica oleracea L. convar. *capitata* (L.) Alef. var. *sabauda* D.C	Brassica oleracea (Savoy Cabbage Group)	BRASS_**OLE**_06
Brassica rapa L. var. *rapa* (L.) Thell.	Brassica rapa (Turnip Group)	BRASS_**RAP**_02

This would allow all groups within a species to be linked by the UPOV code e.g. BRASS_OLE = *Brassica oleracea*.

Option 2 (Groups within a genus)

Groups are made within a genus and the UPOV code for groups within the same species will not have a common root e.g.:

Botanical name	Group name	UPOV code
Brassica oleracea L. convar. *capitata* (L.) Alef. var. *alba* D.C	Brassica (White Cabbage Group)	BRASS_**007**
Brassica oleracea L. convar. *capitata* (L.) Alef. var. *sabauda* D.C	Brassica (Savoy Cabbage Group)	BRASS_**008**
Brassica rapa L. var. *rapa* (L.) Thell.	Brassica (Turnip Group)	BRASS_**014**

15. The new codes according to these two option are presented for *Beta* in Annex I and Brassica in Annex II. In the case of *Brassica*, part (a) is presented in current UPOV code order; part (b) in UPOV code order according to Option 1; and part (c) in UPOV code order according to Option 2.

16. Option 1 would allow all groups within a species to be linked by the UPOV code e.g. BRASS_OLE = *Brassica oleracea* and would require little change to the existing database of codes. However, the UPOV code could not, for example, be used to group White Cabbage,

Red Cabbage and Savoy Cabbage varieties – currently combined under *Brassica oleracea* L. convar. *capitata* (L.) Alef. (BRASS_OLE_C) in the database.

17. Option 2 would not allow any inter-group linking directly by means of the UPOV code. Thus, the UPOV code could not be used to group *Brassica rapa* into a single group as distinct from, for example, *Brassica oleracea*. It would also be necessary to decide how to code the species for which groups had not been created (see entries 74-128 in Annex II, part (c)) and, in particular, if they would continue to use the current UPOV code basis of genus / species / subspecies, or if all taxa within such genera would have to be classified into groups.

18. The TWV, at is thirty-eighth session, held in Seoul, Republic of Korea, from June 7 to 11, 2004, agreed that option 1 (groups within a species) should be followed, subject to modification of the sub-specific element of the code. With respect to the sub-specific element of the code, the TWV agreed that this should be in the form of letters, rather than numbers. Mr. Niall Green (United Kingdom) was requested to present proposals on that basis to the Office of the Union at the beginning of August 2004.

19. If option 1 or 2, or another proposal, is not agreed, the current proposed UPOV codes, as set out in the second column of Annexes I and II of this document, will be retained.

(d) Checking of Codes

20. During the course of 2003, the chairpersons of each TWP selected genera and species from document TC/39/13, Annexes I and II, which were reviewed by their respective TWP. Annexes I and II of document TC/39/13 each contain around 7,000 entries. A total of around 4,500 entries was selected for checking by at least one TWP. Of the 2,500 entries which were not allocated to a TWP, around 1,800 were linked to names stabilized by the International Seed Testing Association (ISTA) and the TC-EDC, at its meeting on January 14, 2004, considered that, on that basis, it was not necessary to seek checks on the codes.

21. Annex I (presented in order of botanical name) and Annex II (presented in UPOV code order) of document TC/40/6-CAJ/49/4 containing amendments recommended by the appointed experts, to document TC/39/13 Annexes I and II, were presented to the TC at its fortieth session.

22. In addition to checking the codes presented in the Annexes to document TC/39/13, some of the appointed experts proposed codes for genera and species which were not already included in the list. Furthermore, the Office reviewed the UPOV-ROM (version 2003/03) and identified other genera and species for which codes were required. Annex IV to document TC/40/6-CAJ/49/4 proposed codes for those genera and species, together with the countries/organizations entering data in the UPOV-ROM and what was considered to be the most relevant TWP for checking purposes.

23. Concerning the approximately 600 previously unchecked entries presented in Annex III to document TC/40/6-CAJ/49/4 and the new entries proposed in Annex IV to document TC/40/6-CAJ/49/4, the TC agreed that these should be checked by the appropriate TWP during the 2004 sessions. Where, after consultation with the TWP chairmen, an appropriate TWP could not be clearly identified, the country contributing data for the genera / species concerned would be identified and requested to check the code. In the meantime, the codes in

Annexes III and IV of document TC/40/6-CAJ/49/4 would be included in the GENIE database.

24. On the basis explained in (a) to (d) above, the TC agreed to the codes as presented in Annexes I and II of document TC/40/6-CAJ/49/4. In agreeing the codes, the TC noted that, with the exception of some of the codes developed for taxa with the International Seed Testing Association (ISTA) stabilized names, these Annexes presented codes as checked and amended by the appointed TWP experts.

25. In accordance with the request of the TC (see paragraph 22), Annex III of this document contains the codes which, it is proposed, should be checked by the TWA. Annex III (a) presents the entries in botanical name order. Annex III (b) presents the entries in order of the using authorities. It should be noted that the order in Annex III (b) is determined by the first using authority (alphabetically) for each entry and individual searches would be needed to identify all entries relevant for each using authority. To aid the experts in the checking of these codes, the Office can, if required, provide an Excel spreadsheet containing all UPOV codes in which the codes to be checked by each expert would be highlighted.

Procedure for Introduction and Amendment of Codes

26. The TWC agreed with the structure of the code and the proposed program for its introduction. It recommended that the database should indicate which TWP would be responsible for checking the validity of each code. It also agreed that, where appropriate, the GENIE database should indicate the relevant Test Guidelines for each code and, furthermore, that the third element of the code should be used to generate different codes for different types of varieties of the same species or sub-species, which were covered by different Test Guidelines. The TWC agreed that new codes created by the Office could be used immediately but such new codes should be reviewed by the relevant TWP at their annual sessions.

27. The TWC recommended that the code should, in general, not be changed as a result of a change in the botanical name of a species. However, it recognized that a change in the structure and content of a genus may require a change in the UPOV code to ensure that the first element of the code could be used to sort species into the correct genus - this being of particular importance for variety denomination purposes (see Recommendation 9 of document UPOV/INF/12 Rev. “UPOV Recommendations on Variety Denominations”).

28. It was recognized that new UPOV codes and amendments to existing codes would need to be introduced in a timely manner to ensure the effectiveness of the databases which are built around the UPOV Code System. It was also recognized that the information linked to the codes may need to be updated from time to time, for example to introduce synonyms generated by taxonomic developments.

29. The following procedure for the introduction and amendment of codes was agreed by the TC on the basis of the comments received:

(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 will exist 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 is 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 identified 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 principle routes by which the Office will update its information.

30. The TC agreed 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 the GENIE database is made available on the UPOV Website. Guidance on how to use the GENIE database for this purpose will be issued at that time. However, in the first instance, such use will be optional.

PLANT VARIETY DATABASE

31. The TC, at its thirty-ninth session, and the CAJ, at its forty-eighth session, approved a program to improve the effectiveness of the UPOV-ROM Plant Variety Database as set out in document TC/39/14-CAJ/47/5.

32. Document TC/39/14-CAJ/47/5 explained that certain aspects, raised by the responses to the Questionnaire on how the effectiveness of the UPOV-ROM might be improved ("the questionnaire"), could be addressed without any structural changes to the UPOV-ROM and could be undertaken by the Office within the "short term," i.e. during the course of 2003. However, other aspects would require major structural improvements, such as moving to a Web-based database which would need careful consideration in terms of resource requirements for both the Office and the members of the Union who contribute data. Nevertheless, it was considered appropriate for the Office to investigate these aspects and undertake a preliminary assessment of benefits and costs during the course of 2003.

33. A factor which has been taken into account in the program to improve the Plant Variety Database has been the project for a centralized database of variety denominations being undertaken by the Community Plant Variety Office (CPVO) ("the CPVO variety denomination database"). 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 in both parties cooperating in their work and a Memorandum of Agreement (the Memorandum) is being developed. The purpose of that Memorandum is to set out cooperation for the development and maintenance of the Web-based UPOV Plant Variety Database and CPVO variety denomination database in a way which will minimize the overall cost of development, maximize the completeness of the UPOV Plant Variety Database and CPVO variety denomination database and secure compatibility of both databases. In addition to a close cooperation in the development of the database, another important field of collaboration will be the sharing of the UPOV-CPVO efforts to collect information for populating and maintaining the database, thereby avoiding duplication of work.

34. With regard to moving the Plant Variety Database to a Web-based system, it has been concluded that it will be possible for this to be undertaken within available resources. The CPVO plans to have a first version of the CPVO variety denomination database available on line at the end of 2004 and it is recognized that, in order to maximize efficiency in the work, the CPVO variety denomination database and Plant Variety Database should, as far as possible develop side-by-side. It is also noted that the development of the UPOV Code System and GENIE database are critical for both databases. With regard to a timetable for the introduction of the Web-based Plant Variety Database, it is anticipated that a prototype would be presented to the TC and CAJ at their forty-first and fifty-first sessions, respectively, in 2005, with a view to the launch taking place later in 2005. The following aspects, concerning

the development of a Web-based database, are explored for information and detailed proposals will be put forward with the prototype.

Development of a Web-based Plant Variety Database

Data to be Included

35. An important aspect of the Web-based Plant Variety Database will be the fields which should be completed by contributors. At its thirty-ninth session, the TC clarified that any proposals to change the fields in the UPOV-ROM to be considered as mandatory would need to be agreed by the members of the Union. The TWA agreed that the Web-based Plant Variety Database should have a field which allowed the variety denomination class for each UPOV code to be indicated. The TWC agreed that consideration should be given to the creation of a field to indicate whether the variety denomination is in the form of a "code," rather than a "fancy name."

36. With regard to the indication of the UPOV variety denomination class for each UPOV code, this information will be provided by the GENIE database which would be linked to the Plant Variety Database. Similarly, the botanical name(s) and common name(s) would also be provided by the GENIE database.

Maintenance, Transfer and Use of Data and Access to Data

(a) Maintenance of Data

37. The responses to the questionnaire and discussions with the CPVO concerning the CPVO variety denomination database highlighted that the quality and completeness of the data in the Plant Variety Database is crucial for its value. The importance of this is such that certain key ways in which UPOV and CPVO can cooperate in ensuring high quality data are planned to be included in the Memorandum.

38. It is expected that improving the ease of transfer of data (see section (b)(i) below, "Transfer of Data: Data Format") will help to remove obstacles for some authorities which do not currently contribute data. Nevertheless, it is recognized that there may remain authorities which do not have the resources to contribute data electronically and where UPOV would need to consider provisions for manual inputting of data from printed gazettes. In this respect, two options are possible. One option is for the Office to divert some of its resources to this activity. A second option is for members of the Union to assist in this work.

(b) Transfer of Data

(i) Data Format

39. A key development in the introduction of the Web-based Plant Variety Database will be to make the transfer of data by contributors easier. At present, the data must be submitted in a specified "TAG" format. However, it is anticipated that, for the Web-based Plant Variety Database, it will be possible to submit data in simple table form (e.g. Microsoft Word table or Excel spreadsheet), thus making it much easier for authorities without specialized IT

resources to submit data. Nevertheless, it is emphasized that the Web-based Plant Variety Database will continue to accept data in the current format as provided for the UPOV-ROM.

(ii) Data Quality Checks

40. At present, it is not practical to perform meaningful checks on the quality of data transferred. However, electronic checking systems would be introduced to check the accuracy of the data being transferred into the database. These would be able to identify, for example, unexpected dates for a field, inconsistent formats, etc.

(iii) Frequency of Data Submission

41. Currently, for the UPOV-ROM, contributors are requested to provide data on a bimonthly basis. Clearly, increasing the frequency of updating data will improve the value of the Plant Variety Database. However, in their responses to the questionnaire, a number of contributors indicated that increasing the frequency of submission of data might not be achievable. The Web-based Plant Variety Database will be developed in such a way that data can be submitted at any frequency (e.g. a daily basis) but would allow, as is the case for the UPOV-ROM, for contributors to update their data at a frequency less than the standard frequency.

(c) Use of Data

42. The Plant Variety Database is of primary value in relation to variety denomination information for authorities. However, UPOV would like to retain the possibility, which exists with the UPOV-ROM, to utilize the information which will be contained in the Web-based Plant Variety Database in order to provide additional services to breeders and other users in a way which would, if considered appropriate, allow income generation for UPOV.

43. In order to develop the possibility of UPOV using the Web-based Plant Variety Database for income generation, it would be important for recipients of the raw data to use the data in a way which did not undermine such an approach. In particular, it is anticipated that use of the data by authorities to allow breeders to check possible compliance of variety denominations would not, in itself, undermine the income generating possibilities of the database. However, it would be necessary for each authority to consider how to use the data in a way which did not undermine the UPOV scope for income generation without affecting the service it offered to breeders with regard to variety denomination requirements, which it may wish to make free of charge.

(d) Access to Raw Data for Third Parties

44. The entire data in electronic form is considered as the raw data. It is proposed that the current UPOV policy with regard to access to raw data for parties other than members of the Union and contributors of data (third parties) be retained. Thus, raw data would only be available to members of the Union and contributors of data and would not be available to third parties.

45. In making this proposal it is recognized that it would be important for the Web-based Plant Variety Database to have an effective search capability, which would satisfy the demands of third party users, without a need for access to the raw data as such.

Links to Other Websites

46. It is anticipated that allowing breeders to check, in advance, their proposed variety denominations in all territories in which their variety might be registered would reduce the riskof a different variety denomination subsequently being required in different territories. Therefore, one aim in the development of the Web-based Plant Variety Database will be to create a single point of reference for variety denomination checking purposes. Thus, a breeder wishing to check a proposed variety denomination for suitability in several territories could visit the UPOV Website to navigate around the relevant sources of information. Some members of the Union may provide their variety denomination checking software to UPOV in order that users might check their proposed variety denominations on the UPOV Website. However, in other cases, such services may only be available via the authority itself, although it is hoped that their database would be based on the Web-based Plant Variety Database. In such cases, the UPOV Website could provide links to the Websites of such authorities.

47. It is proposed that members of the Union should inform the Office if they wish the UPOV Website to include their software for searching the suitability of variety denominations.

48. In addition to the type of data already included in the UPOV-ROM, there is certain information which may be useful for the examination of proposed variety denominations, but is not considered appropriate for inclusion in the database itself. Examples of such data include information on trademarks and the information held by the International Cultivar Registration Authorities (ICRAs). In order for the UPOV Website to provide a common point of reference for variety denomination checking purposes, it is proposed that the UPOV Website would provide indices and links to the appropriate Web pages or contact details of trademark offices, ICRAs and other useful sources of information.

49. The TC noted the information above and welcomed the program of cooperation between UPOV and the Community Plant Variety Office (CPVO) in the development of software and maintenance of data concerning their respective databases.

50. The TC noted that the Office would present an initial prototype of its Web-based Plant Variety Database at the forty-first session of the TC in 2005, 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.

51. With regard to the proposal 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.

Short-Term Improvements to the UPOV-ROM

52. A consequence of progress on moving the Plant Variety Database to a Web-based system is that the proposed program concerning the short-term improvements to the UPOV-ROM, as identified in paragraph 23 of document TC/39/14-CAJ/47/5, has been

revised. Given that a new Web-based version of the Plant Variety Database is planned to be available during 2005, it would not be an efficient use of the Office's resources to pursue the developments listed below for the existing UPOV-ROM:

- revise the user's guide, including translation into all four UPOV languages;
- provide the user's guide on the UPOV Website;
- include UPOV documents which provide information on members of the Union with experience of a particular species;
- develop a "leaflet" summarizing the uses of the UPOV-ROM for authorities and other users;
- investigate the possibility of saving or printing lists of sorted / selected data; and
- investigate the possibility of including the set-up software with each UPOV-ROM.

53. It was proposed, instead, that the developments listed above, with regard to the UPOV-ROM, should be cancelled and incorporated into the introduction of the new Web-based Plant Variety Database.

54. One proposal for short-term improvements was to develop proposals for training for the purposes of contributing data to the UPOV-ROM and for use of the UPOV-ROM. In that respect, it had been planned to include training on the Plant Variety Database in the UPOV Workshops on Data Handling, held in conjunction with the TWC. It is now planned that this will go ahead, but will be modified to reflect the latest developments.

55. The remaining short-term proposals are related to improving the completeness of data provided by contributors and consideration of making raw data available to third party users for an additional charge. These matters are covered above in relation to the development of the Web based Plant Variety Database.

56. The TC 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 agreed that training for the purposes of contributing data to the Plant Variety Database and for its use should go ahead. The TC noted that the UPOV-ROM would continue to be produced on the current basis and noted 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 production of the CD-ROM without further consultation.

GENIE DATABASE

57. The GENIE database cannot be launched until the UPOV codes have been approved. However, document TC/40/4 "List of species in which practical knowledge has been acquired or for which national test guidelines have been established" was produced from the GENIE database in its prototype form. During the course of summer 2004 the GENIE database will be increasingly populated with UPOV codes and corresponding information, with the aim of completing the prototype database in October 2004. The launch of the GENIE database on the UPOV Website is scheduled to take place at the end of 2004 / beginning of 2005.

However, from November 2004 contributors to the UPOV-ROM should be able to receive an electronic copy of the prototype GENIE database to generate codes for submitting with their UPOV-ROM data.

58. The TWA is invited to:

(a) comment on the proposals concerning UPOV codes for inter-generic and inter-specific hybrids (see paragraphs 9 to 11);

(b) comment on the proposals for multiple-ranked names (see paragraphs 12 to 19);

(c) check the codes presented in Annex III of this document (see paragraphs 20 to 25); and

(d) note developments concerning the Plant Variety Database and GENIE database.

[Annex I follows]

ANNEX I

NEW CODES
for
BETA

Line no.	UPOV Code (Current & Option 1)	Botanical name	New classification	UPOV Code (Option 2)	Common Name	Source Document
1	BETAA_	Beta ssp.		BETAA_		TC_39_4x
2	BETAA_VUL_	Beta vulgaris		???		TC_39_4x
3	BETAA_VUL_	* Beta vulgaris L.		???		ISTA
4	BETAA_VUL_V1	Beta vulgaris L. ssp. vulgaris var. alba DC.	Beta (Fodder Beet Group)	BETAA_01	Fodder Beet	TC/35/16(1)
5	BETAA_VUL_V1	Beta vulgaris L. ssp. vulgaris var. alba DC. [var. crassa Alef.; var. crassa Mansf.; var. rapacea K. Koch]	Beta (Fodder Beet Group)	BETAA_01	Fodder Beet	C_36_5
6	BETAA_VUL_V1	Beta vulgaris L. ssp. vulgaris var. alba DC. [var. crassa Alef.; var. crassa Mansf.; var. rapacea K. Koch]	Beta (Fodder Beet Group)	BETAA_01	Fodder Beet	C_36_6
7	BETAA_VUL_V1	Beta vulgaris L. ssp. vulgaris var. alba DC. [var. crassa Alef.; var. crassa Mansf.]	Beta (Fodder Beet Group)	BETAA_01		TC_39_4x
8	BETAA_VUL_V1	Beta vulgaris L. ssp. vulgaris var. crassa Alef.	Beta (Fodder Beet Group)	BETAA_01	Fodder Beet	TC/35/16(1)
9	BETAA_VUL_V1	Beta vulgaris L. ssp. vulgaris var. crassa Mansf.	Beta (Fodder Beet Group)	BETAA_01	Fodder Beet	TC/35/16(1)
10	BETAA_VUL_V1	Beta vulgaris L. ssp. vulgaris var. rapacea K. Koch	Beta (Fodder Beet Group)	BETAA_01	Fodder Beet	TC/35/16(1)
11	BETAA_VUL_V2	Beta vulgaris L. ssp. vulgaris var. conditiva Alef.	Beta (Beetroot Group)	BETAA_02	Garden Beet, Beetroot	TC/35/16(1)
12	BETAA_VUL_V2	Beta vulgaris L. ssp. vulgaris var. conditiva Alef. [var. esculenta L.; var. hortensis; var. vulgaris]	Beta (Beetroot Group)	BETAA_02	Garden Beet, Beetroot	C_36_5
13	BETAA_VUL_V2	Beta vulgaris L. ssp. vulgaris var. conditiva Alef. [var. esculenta L.; var. hortensis; var. vulgaris]	Beta (Beetroot Group)	BETAA_02	Garden Beet, Beetroot	C_36_6
14	BETAA_VUL_V2	Beta vulgaris L. ssp. vulgaris var. conditiva Alef. [var. esculenta L.; var. hortensis]	Beta (Beetroot Group)	BETAA_02		TC_39_4x
15	BETAA_VUL_V2	Beta vulgaris L. ssp. vulgaris var. esculenta L.	Beta (Beetroot Group)	BETAA_02	Garden Beet, Beetroot	TC/35/16(1)
16	BETAA_VUL_V2	Beta vulgaris L. ssp. vulgaris var. hortensis	Beta (Beetroot Group)	BETAA_02	Garden Beet, Beetroot	TC/35/16(1)
17	BETAA_VUL_V3	Beta vulgaris L. ssp. vulgaris var. cicla (L.) Ulrich	Beta (Chard Group)	BETAA_03	Mangel, Leaf Beet, Spinach Beet	TC/35/16(1)
18	BETAA_VUL_V3	Beta vulgaris L. ssp. vulgaris var. flavescens DC. f. crispa	Beta (Chard Group)	BETAA_03	Mangel, Swiss Chard	TC/35/16(1)
19	BETAA_VUL_V3	Beta vulgaris L. ssp. vulgaris var. flavescens DC. f. crispa	Beta (Chard Group)	BETAA_03		TC_39_4x
20	BETAA_VUL_V3	Beta vulgaris L. ssp. vulgaris var. vulgaris [var. cicla (L.) Ulrich]	Beta (Chard Group)	BETAA_03	Mangel, Leaf Beet, Spinach Beet	C_36_5
21	BETAA_VUL_V3	Beta vulgaris L. ssp. vulgaris var. vulgaris [var. cicla (L.) Ulrich]	Beta (Chard Group)	BETAA_03		TC_39_4x

Line no.	UPOV Code (Current & Option 1)	Botanical name	New classification	UPOV Code (Option 2)	Common Name	Source Document
22	BETAA_VUL_V3	Beta vulgaris L. ssp. vulgaris var. vulgaris* [var. cicla (L.) Ulrich]	Beta (Chard Group)	BETAA_03	Mangel, Leaf Beet, Spinach Beet	C_36_6
23	BETAA_VUL_V4	Beta vulgaris L. ssp. vulgaris var. altissima Doell	Beta (Sugar Beet Group)	BETAA_04	Sugar Beet	TC/35/16(1)
24	BETAA_VUL_V4	Beta vulgaris L. ssp. vulgaris var. altissima Doell [var. saccharifera Alef.]	Beta (Sugar Beet Group)	BETAA_04	Sugar Beet	C_36_5
25	BETAA_VUL_V4	Beta vulgaris L. ssp. vulgaris var. altissima Doell [var. saccharifera Alef.]	Beta (Sugar Beet Group)	BETAA_04	Sugar Beet	C_36_6
26	BETAA_VUL_V4	Beta vulgaris L. ssp. vulgaris var. altissima Doell [var. saccharifera Alef.]	Beta (Sugar Beet Group)	BETAA_04		TC_39_4x
27	BETAA_VUL_V4	Beta vulgaris L. ssp. vulgaris var. saccharifera Alef.	Beta (Sugar Beet Group)	BETAA_04	Sugar Beet	TC/35/16(1)

[Annex II follows]

ANNEX II

NEW CODES
for
BRASSICA

Line no.	UPOV Code (Current)	Botanical name	New classification	UPOV Code (Option 1)	UPOV Code (Option 2)	Common Name	Source Document
(a) UPOV CODE ORDER (CURRENT)							
(a)1	BRASS_CAR	Brassica carinata A. Braun	-	BRASS_CAR	???	Abyssinian Mustard, Texsel Greens	TC/35/16(1)
(a)2	BRASS_CAR	Brassica carinata A. Braun	-	BRASS_CAR	???	-	TC_39_4x
(a)3	BRASS_CAR	Brassica carinata L.	-	BRASS_CAR	???	-	TC_39_4x
(a)4	BRASS_JUN	* Brassica juncea (L.) Czern.	-	BRASS_JUN	???	-	ISTA
(a)5	BRASS_JUN	Brassica juncea (L.) Czern. et Coss. in Czern.	-	BRASS_JUN	???	Brown Mustard	C_36_5
(a)6	BRASS_JUN	Brassica juncea (L.) Czern. et Coss. in Czern.	-	BRASS_JUN	???	Brown Mustard	TC/35/16(1)
(a)7	BRASS_JUN	Brassica juncea (L.) Czern. et Coss. in Czern.	-	BRASS_JUN	???		TC_39_4x
(a)8	BRASS_JUN	Brassica juncea (L.) Czern. et Coss. in Czern.*	-	BRASS_JUN	???	Brown Mustard	C_36_6
(a)9	BRASS_NAP	Brassica napus hort.	-	BRASS_NAP	???	-	TC_39_4x
(a)10	BRASS_NAP	* Brassica napus L.	-	BRASS_NAP	???	-	ISTA
(a)11	BRASS_NAP	* Brassica napus L.	-	BRASS_NAP	???	-	TC/35/16(1)
(a)12	BRASS_NAP	* Brassica napus L.	-	BRASS_NAP	???	-	TC_39_4x
(a)13	BRASS_NAP	* Brassica napus L.	-	BRASS_NAP	???	-	C_36_6
(a)14	BRASS_NAP	Brassica napus L. [partim]	-	BRASS_NAP	???	-	TC_39_4x
(a)15	BRASS_NAP_NPB	Brassica napus L. ssp. rapifera Metzg.	Brassica (Swede Group)	BRASS_NAP_01	BRASS_001	Swede	TC/35/16(1)
(a)16	BRASS_NAP_NPB	Brassica napus L. var. napobrassica (L.) Rchb.	Brassica (Swede Group)	BRASS_NAP_01	BRASS_001	Swede	TC/35/16(1)
(a)17	BRASS_NAP_NPB	Brassica napus L. var. napobrassica (L.) Rchb.	Brassica (Swede Group)	BRASS_NAP_01	BRASS_001	-	TC_39_4x
(a)18	BRASS_NAP_NPB	Brassica napus L. var. napobrassica (L.) Rchb. [ssp. rapifera Metzg.]	Brassica (Swede Group)	BRASS_NAP_01	BRASS_001	Swede	C_36_5
(a)19	BRASS_NAP_NPB	Brassica napus L. var. napobrassica (L.) Rchb.* [ssp. rapifera Metzg.]	Brassica (Swede Group)	BRASS_NAP_01	BRASS_001	Swede	C_36_6
(a)20	BRASS_NAP_NPS	Brassica napus L. emend. Metzg. ssp. napus	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	Rapeseed, Swede Rape, incl. Oilseed Rape	TC/35/16(1)
(a)21	BRASS_NAP_NPS	Brassica napus L. ssp. oleifera (Metzg.) Sinsk	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	Rapeseed, Swede Rape, incl. Oilseed Rape	TC/35/16(1)
(a)22	BRASS_NAP_NPS	Brassica napus L. ssp. oleifera (Metzg.) Sinsk [B. napus L.; B. napus L. var. oleifera Metzg., B. napus var. napus; B. napus L. emend. Metzg. ssp. napus]	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	Rapeseed, Swede Rape, incl. Oilseed Rape	C_36_5
(a)23	BRASS_NAP_NPS	Brassica napus L. ssp. oleifera (Metzg.) Sinsk [B. napus L.; B. napus L. var. oleifera Metzg.]	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	-	TC_39_4x
(a)24	BRASS_NAP_NPS	Brassica napus L. ssp. oleifera (Metzg.) Sinsk* [B. napus L.; B. napus L. var. oleifera Metzg., B. napus var. napus; B. napus L. emend. Metzg. ssp. napus]	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	Rapeseed, Swede Rape, incl. Oilseed Rape	C_36_6

Line no.	UPOV Code (Current)	Botanical name	New classification	UPOV Code (Option 1)	UPOV Code (Option 2)	Common Name	Source Document
(a)25	BRASS_NAP_NPS	Brassica napus L. var. oleifera Metzg.	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	-	sub
(a)26	BRASS_NAP_NPS	Brassica napus var. napus	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	Rapeseed, Swede Rape, incl. Oilseed Rape	TC/35/16(1)
(a)27	BRASS_NIG	* Brassica nigra (L.) W. D. J. Koch	-	BRASS_NIG	???		ISTA
(a)28	BRASS_NIG	Brassica nigra (L.) W. Koch	-	BRASS_NIG	???	Black Mustard	TC/35/16(1)
(a)29	BRASS_NIG	Brassica nigra (L.) W. Koch	-	BRASS_NIG	???		TC_39_4x
(a)30	BRASS_NIG	* Brassica nigra (L.) W.D.J. Koch	-	BRASS_NIG	???	Black Mustard	C_36_6
(a)31	BRASS_OLE	* Brassica oleracea L.	-	BRASS_OLE	???	-	ISTA
(a)32	BRASS_OLE	* Brassica oleracea L.	-	BRASS_OLE	???	-	TC/35/16(1)
(a)33	BRASS_OLE	* Brassica oleracea L.	-	BRASS_OLE	???	-	TC_39_4x
(a)34	BRASS_OLE	* Brassica oleracea L.	-	BRASS_OLE	???	-	C_36_6
(a)35	BRASS_OLE	Brassica oleracea L. [partim]	-	BRASS_OLE	???	-	TC_39_4x
(a)36	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef.	-	???	???	-	C_36_6
(a)37	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef.	-	???	???	-	TC/35/16(1)
(a)38	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef.	-	???	???	-	TC_39_4x
(a)39	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. [partim]	-	???	???	-	TC_39_4x
(a)40	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. [partim] [ssp. acephala DC.]	-	???	???	~~Fodder Kale~~	C_36_6
(a)41	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. [partim] [ssp. acephala DC.]	-	???	???	-	TC_39_4x
(a)42	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. var. viridis L. + Brassica oleracea L. convar. acephala (DC.) Alef. var. medullosa Thell.	-	???	???	-	TC_39_4x
(a)43	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. var. viridis L. + var. medullosa Thell.	-	???	???	Fodder Kale	C_36_5
(a)44	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. var. viridis L. + var. medullosa Thell.	-	???	???	Fodder Kale	C_36_6
(a)45	BRASS_OLE_A1	Brassica oleracea L. convar. acephala (DC.) Alef. var. medullosa Thell.	Brassica (Marrow-stem Kale Group)	BRASS_OLE_01	BRASS_003	Marrow-stem Kale	C_36_6
(a)46	BRASS_OLE_A1	Brassica oleracea L. convar. acephala (DC.) Alef. var. medullosa Thell.	Brassica (Marrow-stem Kale Group)	BRASS_OLE_01	BRASS_003	Marrow-stem Kale	TC/35/16(1)
(a)47	BRASS_OLE_A1	Brassica oleracea L. convar. acephala (DC.) Alef. var. medullosa Thell.	Brassica (Marrow-stem Kale Group)	BRASS_OLE_01	BRASS_003	-	TC_39_4x
(a)48	BRASS_OLE_A1	Brassica oleracea L. var. medullosa Thell.	Brassica (Marrow-stem Kale Group)	BRASS_OLE_01	BRASS_003	Marrow-stem Kale	TC/35/16(1)
(a)49	BRASS_OLE_A2	Brassica oleracea L. convar. acephala (DC.) Alef. var. sabellica L.	Brassica (Curly Kale Group)	BRASS_OLE_02	BRASS_004	Curly Kale	C_36_6
(a)50	BRASS_OLE_A2	Brassica oleracea L. convar. acephala (DC.) Alef. var. sabellica L.	Brassica (Curly Kale Group)	BRASS_OLE_02	BRASS_004	-	TC_39_4x

Line no.	UPOV Code (Current)	Botanical name	New classification	UPOV Code (Option 1)	UPOV Code (Option 2)	Common Name	Source Document
(a)51	BRASS_OLE_A2	Brassica oleracea L. convar. acephala (DC.) Alef. var. sabellica L. [B. oleracea L. convar. acephala var. laciniata (L.) Schulz]	Brassica (Curly Kale Group)	BRASS_OLE_02	BRASS_004	Curly Kale	C_36_5
(a)52	BRASS_OLE_A2	Brassica oleracea L. var. sabellica L.	Brassica (Curly Kale Group)	BRASS_OLE_02	BRASS_004	borecole, curly kale, dwarf Siberian kale, kitchen kale, Scotch kale	TC/35/16(1)
(a)53	BRASS_OLE_A3	Brassica oleracea L. convar. acephala (DC.) Alef. var. viridis L.	Brassica (Fodder Kale Group)	BRASS_OLE_03	BRASS_005	Fodder Kale	TC/35/16(1)
(a)54	BRASS_OLE_A3	Brassica oleracea L. var. viridis L.	Brassica (Fodder Kale Group)	BRASS_OLE_03	BRASS_005	collards, cow cabbage, fodder kale, kale, spring-heading cabbage, tall kale, tree kale	TC/35/16(1)
(a)55	BRASS_OLE_A4	Brassica oleracea L. var. ramosa DC.	-	???	???	catjang, catjang cowpea, sow-pea	new
(a)56	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef.	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	-	TC_39_4x
(a)57	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef.	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	-	C_36_6
(a)58	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef. var. botrytis	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	Cauliflower	C_36_5
(a)59	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef. var. botrytis	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	Cauliflower	C_36_6
(a)60	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef. var. botrytis	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	Cauliflower	TC/35/16(1)
(a)61	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef. var. botrytis	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	-	TC_39_4x
(a)62	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef.	-	???	???	-	TC/35/16(1)
(a)63	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef.	-	???	???	-	TC_39_4x
(a)64	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef.	-	???	???	-	C_36_6
(a)65	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata (L.) Alef.	-	???	???	Cabbage	TC/35/16(1)
(a)66	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata (L.) Alef.	-	???	???	-	TC_39_4x
(a)67	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata (L.) Alef.	-	???	???	Cabbage	C_36_6
(a)68	BRASS_OLE_C	Brassica oleracea L. var. capitata L.	-	???	???	-	TC/35/16(1)
(a)69	BRASS_OLE_C1	Brassica oleracea L. convar. capitata (L.) Alef. var. alba DC.	Brassica (White Cabbage Group)	BRASS_OLE_05	BRASS_007	White Cabbage	TC/35/16(1)
(a)70	BRASS_OLE_C1	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. alba DC.	Brassica (White Cabbage Group)	BRASS_OLE_05	BRASS_007	White Cabbage	TC/35/16(1)
(a)71	BRASS_OLE_C1	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. alba DC. [var. alba DC.]	Brassica (White Cabbage Group)	BRASS_OLE_05	BRASS_007	White Cabbage	C_36_5
(a)72	BRASS_OLE_C1	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. alba DC. [var. alba DC.]	Brassica (White Cabbage Group)	BRASS_OLE_05	BRASS_007	White Cabbage	C_36_6
(a)73	BRASS_OLE_C1	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. alba DC. [var. alba DC.]	Brassica (White Cabbage Group)	BRASS_OLE_05	BRASS_007	-	TC_39_4x

Line no.	UPOV Code (Current)	Botanical name	New classification	UPOV Code (Option 1)	UPOV Code (Option 2)	Common Name	Source Document
(a)74	BRASS_OLE_C2	Brassica oleracea L. convar. capitata (L.) Alef. var. bullata DC.	Brassica (Savoy Cabbage Group)	BRASS_OLE_06	BRASS_008	Savoy Cabbage	TC/35/16(1)
(a)75	BRASS_OLE_C2	Brassica oleracea L. convar. capitata (L.) Alef. var. sabauda L.	Brassica (Savoy Cabbage Group)	BRASS_OLE_06	BRASS_008	Savoy Cabbage	TC/35/16(1)
(a)76	BRASS_OLE_C2	Brassica oleracea L. convar. capitata (L.) Alef. var. sabauda L. [var. bullata DC. + var. sabauda L.]	Brassica (Savoy Cabbage Group)	BRASS_OLE_06	BRASS_008	Savoy Cabbage	C_36_5
(a)77	BRASS_OLE_C2	Brassica oleracea L. convar. capitata (L.) Alef. var. sabauda L. [var. bullata DC. + var. sabauda L.]	Brassica (Savoy Cabbage Group)	BRASS_OLE_06	BRASS_008	Savoy Cabbage	C_36_6
(a)78	BRASS_OLE_C2	Brassica oleracea L. convar. capitata (L.) Alef. var. sabauda L. [var. bullata DC. + var. sabauda L.]	Brassica (Savoy Cabbage Group)	BRASS_OLE_06	BRASS_008	-	TC_39_4x
(a)79	BRASS_OLE_C3	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. rubra (L.) Thell.	Brassica (Red Cabbage Group)	BRASS_OLE_07	BRASS_009	Red Cabbage	TC/35/16(1)
(a)80	BRASS_OLE_C3	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. rubra (L.) Thell. [var. rubra (L.) Thell.]	Brassica (Red Cabbage Group)	BRASS_OLE_07	BRASS_009	Red Cabbage	C_36_5
(a)81	BRASS_OLE_C3	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. rubra (L.) Thell. [var. rubra (L.) Thell.]	Brassica (Red Cabbage Group)	BRASS_OLE_07	BRASS_009	Red Cabbage	C_36_6
(a)82	BRASS_OLE_C3	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. rubra (L.) Thell. [var. rubra (L.) Thell.]	Brassica (Red Cabbage Group)	BRASS_OLE_07	BRASS_009	-	TC_39_4x
(a)83	BRASS_OLE_C3	Brassica oleracea L. convar. capitata (L.) Alef. var. rubra (L.) Thell.	Brassica (Red Cabbage Group)	BRASS_OLE_07	BRASS_009	Red Cabbage	TC/35/16(1)
(a)84	BRASS_OLE_GEM	Brassica oleracea L. convar. oleracea var. gemmifera DC.	Brassica (Brussels Sprout Group)	BRASS_OLE_08	BRASS_010	Brussels Sprouts	TC/35/16(1)
(a)85	BRASS_OLE_GEM	Brassica oleracea L. convar. oleracea var. gemmifera DC. [var. bullata DC. subvar. gemmifera DC.]	Brassica (Brussels Sprout Group)	BRASS_OLE_08	BRASS_010	Brussels Sprouts	C_36_5
(a)86	BRASS_OLE_GEM	Brassica oleracea L. convar. oleracea var. gemmifera DC. [var. bullata DC. subvar. gemmifera DC.]	Brassica (Brussels Sprout Group)	BRASS_OLE_08	BRASS_010	Brussels Sprouts	C_36_6
(a)87	BRASS_OLE_GEM	Brassica oleracea L. convar. oleracea var. gemmifera DC. [var. bullata DC. subvar. gemmifera DC.]	Brassica (Brussels Sprout Group)	BRASS_OLE_08	BRASS_010	-	TC_39_4x
(a)88	BRASS_OLE_GEM	Brassica oleracea L. var. gemmifera Zenker	Brassica (Brussels Sprout Group)	BRASS_OLE_08	BRASS_010	Brussels Sprouts	TC/35/16(1)
(a)89	BRASS_OLE_GON	Brassica oleracea L. convar. acephala (DC.) Alef. var. gongylodes L.	Brassica (Kohlrabi Group)	BRASS_OLE_09	BRASS_011	Kohlrabi	C_36_5
(a)90	BRASS_OLE_GON	Brassica oleracea L. convar. acephala (DC.) Alef. var. gongylodes L.	Brassica (Kohlrabi Group)	BRASS_OLE_09	BRASS_011	Kohlrabi	C_36_6
(a)91	BRASS_OLE_GON	Brassica oleracea L. convar. acephala (DC.) Alef. var. gongylodes L.	Brassica (Kohlrabi Group)	BRASS_OLE_09	BRASS_011	Kohlrabi	TC/35/16(1)
(a)92	BRASS_OLE_GON	Brassica oleracea L. convar. acephala (DC.) Alef. var. gongylodes L.	Brassica (Kohlrabi Group)	BRASS_OLE_09	BRASS_011	-	TC_39_4x
(a)93	BRASS_OLE_GON	Brassica oleracea L. var. gongylodes L.	Brassica (Kohlrabi Group)	BRASS_OLE_09	BRASS_011	cabbage turnip, kohlrabi, stem turnip	TC/35/16(1)

Line no.	UPOV Code (Current)	Botanical name	New classification	UPOV Code (Option 1)	UPOV Code (Option 2)	Common Name	Source Document
(a)94	BRASS_OLE_ITA	Brassica oleracea L. convar. botrytis (L.) Alef. var. cymosa Duch. [var. italica Plenck]	Brassica (Broccoli Group)	BRASS_OLE_10	BRASS_012	Sprouting Broccoli, Calabrese	C_36_5
(a)95	BRASS_OLE_ITA	Brassica oleracea L. convar. botrytis (L.) Alef. var. cymosa Duch. [var. italica Plenck]	Brassica (Broccoli Group)	BRASS_OLE_10	BRASS_012	Sprouting Broccoli, Calabrese	C_36_6
(a)96	BRASS_OLE_ITA	Brassica oleracea L. convar. botrytis (L.) Alef. var. cymosa Duch. [var. italica Plenck]	Brassica (Broccoli Group)	BRASS_OLE_10	BRASS_012	-	TC_39_4x
(a)97	BRASS_OLE_ITA	Brassica oleracea L. convar. botrytis (L.) Alef. var. italica Plenck	Brassica (Broccoli Group)	BRASS_OLE_10	BRASS_012	Sprouting Broccoli, Calabrese	TC/35/16(1)
(a)98	BRASS_OLE_ITA	Brassica oleracea L. var. italica Plenck	Brassica (Broccoli Group)	BRASS_OLE_10	BRASS_012	asparagus broccoli, broccoli, calabrese, Cape broccoli, heading broccoli, purple cauliflower, sprouting broccoli, winter broccoli	TC/35/16(1)
(a)99	BRASS_RAP	* Brassica rapa L.	-	BRASS_RAP	???	-	ISTA
(a)100	BRASS_RAP	* Brassica rapa L.	-	BRASS_RAP	???	-	TC_39_4x
(a)101	BRASS_RAP	Brassica rapa L. [partim]	-	BRASS_RAP	???	-	TC_39_4x
(a)102	BRASS_RAP	* Brassica rapa L.*	-	BRASS_RAP	???	-	C_36_6
(a)103	BRASS_RAP_CAM	* Brassica campestris L.	-	BRASS_RAP_CAM	???	-	ISTA
(a)104	BRASS_RAP_CHI	* Brassica chinensis L.	-	???	???	-	ISTA
(a)105	BRASS_RAP_CHI	* Brassica chinensis L.	-	???	???	Chinese Cabbage, Pakchoi	TC/35/16(1)
(a)106	BRASS_RAP_CHI	* Brassica chinensis L. [B. rapa L. emend. Metzg. ssp. chinensis (L.) Hanelt]	-	???	???	Chinese Cabbage, Pakchoi	C_36_6
(a)107	BRASS_RAP_CHI	Brassica rapa L. emend. Metzg. ssp. chinensis (L.) Hanelt	-	???	???	Chinese Cabbage, Pakchoi	TC/35/16(1)
(a)108	BRASS_RAP_CHI	Brassica rapa L. ssp. chinensis Jusl.	-	???	???	Chinese White Cabbage, Pak Choi	C_36_6
(a)109	BRASS_RAP_NI	Brassica japonica sieb	-	BRASS_RAP_NI	???	-	UPOV-ROM
(a)110	BRASS_RAP_NI	Brassica rapa L. subsp. nipposinica (L. H. Bailey) Hanelt	-	BRASS_RAP_NI	???	-	UPOV-ROM
(a)111	BRASS_RAP_PEK	* Brassica pekinensis (Lour.) Rupr.	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	-	ISTA
(a)112	BRASS_RAP_PEK	* Brassica pekinensis (Lour.) Rupr.	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	Chinese Cabbage	TC/35/16(1)
(a)113	BRASS_RAP_PEK	* Brassica pekinensis (Lour.) Rupr.	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	-	TC_39_4x
(a)114	BRASS_RAP_PEK	* Brassica pekinensis (Lour.) Rupr. [B. rapa L. emend. Metzg. ssp. pekinensis (Lour.) Hanelt; B. Campestris L. ssp. pekinensis (Lour.) Olsson]	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	Chinese Cabbage	C_36_5
(a)115	BRASS_RAP_PEK	* Brassica pekinensis (Lour.) Rupr.* [B. rapa L. emend. Metzg. ssp. pekinensis (Lour.) Hanelt; B. Campestris L. ssp. pekinensis (Lour.) Olsson]	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	Chinese Cabbage	C_36_6
(a)116	BRASS_RAP_PEK	Brassica rapa L. emend. Metzg. ssp. pekinensis (Lour.) Hanelt	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	Chinese Cabbage	TC/35/16(1)
(a)117	BRASS_RAP_PER	* Brassica perviridis (L. H. Bailey) L. H. Bailey	-	BRASS_RAP_PER	???	-	ISTA
(a)118	BRASS_RAP_RAP	Brassica rapa L. ssp. rapa; var. rapifera Metzg.	Brassica (Turnip Group)	BRASS_RAP_02	BRASS_014	Turnip	TC/35/16(1)

Line no.	UPOV Code (Current)	Botanical name	New classification	UPOV Code (Option 1)	UPOV Code (Option 2)	Common Name	Source Document
(a)119	BRASS_RAP_RAP	Brassica rapa L. var. rapa (L.) Thell.	Brassica (Turnip Group)	BRASS_RAP_02	BRASS_014	Turnip	TC/35/16(1)
(a)120	BRASS_RAP_RAP	Brassica rapa L. var. rapa (L.) Thell. [ssp. rapa; var. rapifera Metzg.]	Brassica (Turnip Group)	BRASS_RAP_02	BRASS_014	Turnip	C_36_5
(a)121	BRASS_RAP_RAP	Brassica rapa L. var. rapa (L.) Thell. [ssp. rapa; var. rapifera Metzg.]	Brassica (Turnip Group)	BRASS_RAP_02	BRASS_014	Turnip	C_36_6
(a)122	BRASS_RAP_RAP	Brassica rapa L. var. rapa (L.) Thell. [var. rapifera Metzg.]	Brassica (Turnip Group)	BRASS_RAP_02	BRASS_014	-	TC_39_4x
(a)123	BRASS_RAP_SIL	Brassica rapa L. var. silvestris (Lam.) Briggs	Brassica (Turnip Rape Group)	BRASS_RAP_03	BRASS_015	Turnip Rape	TC/35/16(1)
(a)124	BRASS_RAP_SIL	Brassica rapa L. var. silvestris (Lam.) Briggs [var. oleifera (DC.) Metzg.]	Brassica (Turnip Rape Group)	BRASS_RAP_03	BRASS_015	Turnip Rape	C_36_5
(a)125	BRASS_RAP_SIL	Brassica rapa L. var. silvestris (Lam.) Briggs [var. oleifera (DC.) Metzg.]	Brassica (Turnip Rape Group)	BRASS_RAP_03	BRASS_015	Turnip Rape	C_36_6
(a)126	BRASS_RAP_SIL	Brassica rapa L. var. silvestris (Lam.) Briggs [var. oleifera Metzg.]	Brassica (Turnip Rape Group)	BRASS_RAP_03	BRASS_015	-	TC_39_4x
(a)127	???	Brassica cauliflora lizg	-	???	???	-	UPOV-ROM
(a)128	???	Brassica subspontanea lizg	-	???	???	-	UPOV-ROM
(b) UPOV CODE ORDER (OPTION 1)							
(b)1	BRASS_CAR	Brassica carinata A. Braun	-	BRASS_CAR	???	Abyssinian Mustard, Texsel Greens	TC/35/16(1)
(b)2	BRASS_CAR	Brassica carinata A. Braun	-	BRASS_CAR	???	-	TC_39_4x
(b)3	BRASS_CAR	Brassica carinata L.	-	BRASS_CAR	???	-	TC_39_4x
(b)4	BRASS_JUN	* Brassica juncea (L.) Czern.	-	BRASS_JUN	???	-	ISTA
(b)5	BRASS_JUN	Brassica juncea (L.) Czern. et Coss. in Czern.	-	BRASS_JUN	???	Brown Mustard	C_36_5
(b)6	BRASS_JUN	Brassica juncea (L.) Czern. et Coss. in Czern.	-	BRASS_JUN	???	Brown Mustard	TC/35/16(1)
(b)7	BRASS_JUN	Brassica juncea (L.) Czern. et Coss. in Czern.	-	BRASS_JUN	???	-	TC_39_4x
(b)8	BRASS_JUN	Brassica juncea (L.) Czern. et Coss. in Czern.*	-	BRASS_JUN	???	Brown Mustard	C_36_6
(b)9	BRASS_NAP	Brassica napus hort.	-	BRASS_NAP	???	-	TC_39_4x
(b)10	BRASS_NAP	* Brassica napus L.	-	BRASS_NAP	???	-	ISTA
(b)11	BRASS_NAP	* Brassica napus L.	-	BRASS_NAP	???	-	TC/35/16(1)
(b)12	BRASS_NAP	* Brassica napus L.	-	BRASS_NAP	???	-	TC_39_4x
(b)13	BRASS_NAP	* Brassica napus L.	-	BRASS_NAP	???	-	C_36_6
(b)14	BRASS_NAP	Brassica napus L. [partim]	-	BRASS_NAP	???	-	TC_39_4x
(b)15	BRASS_NAP_NPB	Brassica napus L. ssp. rapifera Metzg.	Brassica (Swede Group)	BRASS_NAP_01	BRASS_001	Swede	TC/35/16(1)
(b)16	BRASS_NAP_NPB	Brassica napus L. var. napobrassica (L.) Rchb.	Brassica (Swede Group)	BRASS_NAP_01	BRASS_001	Swede	TC/35/16(1)
(b)17	BRASS_NAP_NPB	Brassica napus L. var. napobrassica (L.) Rchb.	Brassica (Swede Group)	BRASS_NAP_01	BRASS_001	-	TC_39_4x
(b)18	BRASS_NAP_NPB	Brassica napus L. var. napobrassica (L.) Rchb. [ssp. rapifera Metzg.]	Brassica (Swede Group)	BRASS_NAP_01	BRASS_001	Swede	C_36_5
(b)19	BRASS_NAP_NPB	Brassica napus L. var. napobrassica (L.) Rchb.* [ssp. rapifera Metzg.]	Brassica (Swede Group)	BRASS_NAP_01	BRASS_001	Swede	C_36_6
(b)20	BRASS_NAP_NPS	Brassica napus L. emend. Metzg. ssp. napus	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	Rapeseed, Swede Rape, incl. Oilseed Rape	TC/35/16(1)

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(b)21	BRASS_NAP_NPS	Brassica napus L. ssp. oleifera (Metzg.) Sinsk	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	Rapeseed, Swede Rape, incl. Oilseed Rape	TC/35/16(1)
(b)22	BRASS_NAP_NPS	Brassica napus L. ssp. oleifera (Metzg.) Sinsk [B. napus L.; B. napus L. var. oleifera Metzg., B. napus var. napus; B. napus L. emend. Metzg. ssp. napus]	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	Rapeseed, Swede Rape, incl. Oilseed Rape	C_36_5
(b)23	BRASS_NAP_NPS	Brassica napus L. ssp. oleifera (Metzg.) Sinsk [B. napus L.; B. napus L. var. oleifera Metzg.]	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	-	TC_39_4x
(b)24	BRASS_NAP_NPS	Brassica napus L. ssp. oleifera (Metzg.) Sinsk* [B. napus L.; B. napus L. var. oleifera Metzg., B. napus var. napus; B. napus L. emend. Metzg. ssp. napus]	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	Rapeseed, Swede Rape, incl. Oilseed Rape	C_36_6
(b)25	BRASS_NAP_NPS	Brassica napus L. var. oleifera Metzg.	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	-	sub
(b)26	BRASS_NAP_NPS	Brassica napus var. napus	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	Rapeseed, Swede Rape, incl. Oilseed Rape	TC/35/16(1)
(b)27	BRASS_NIG	* Brassica nigra (L.) W. D. J. Koch	-	BRASS_NIG	???	-	ISTA
(b)28	BRASS_NIG	Brassica nigra (L.) W. Koch	-	BRASS_NIG	???	Black Mustard	TC/35/16(1)
(b)29	BRASS_NIG	Brassica nigra (L.) W. Koch	-	BRASS_NIG	???	-	TC_39_4x
(b)30	BRASS_NIG	* Brassica nigra (L.) W.D.J. Koch	-	BRASS_NIG	???	Black Mustard	C_36_6
(b)31	BRASS_OLE	* Brassica oleracea L.	-	BRASS_OLE	???	-	ISTA
(b)32	BRASS_OLE	* Brassica oleracea L.	-	BRASS_OLE	???	-	TC/35/16(1)
(b)33	BRASS_OLE	* Brassica oleracea L.	-	BRASS_OLE	???	-	TC_39_4x
(b)34	BRASS_OLE	* Brassica oleracea L.	-	BRASS_OLE	???	-	C_36_6
(b)35	BRASS_OLE	Brassica oleracea L. [partim]	-	BRASS_OLE	???	-	TC_39_4x
(b)36	BRASS_OLE_A1	Brassica oleracea L. convar. acephala (DC.) Alef. var. medullosa Thell.	Brassica (Marrow-stem Kale Group)	BRASS_OLE_01	BRASS_003	Marrow-stem Kale	C_36_6
(b)37	BRASS_OLE_A1	Brassica oleracea L. convar. acephala (DC.) Alef. var. medullosa Thell.	Brassica (Marrow-stem Kale Group)	BRASS_OLE_01	BRASS_003	Marrow-stem Kale	TC/35/16(1)
(b)38	BRASS_OLE_A1	Brassica oleracea L. convar. acephala (DC.) Alef. var. medullosa Thell.	Brassica (Marrow-stem Kale Group)	BRASS_OLE_01	BRASS_003	-	TC_39_4x
(b)39	BRASS_OLE_A1	Brassica oleracea L. var. medullosa Thell.	Brassica (Marrow-stem Kale Group)	BRASS_OLE_01	BRASS_003	Marrow-stem Kale	TC/35/16(1)
(b)40	BRASS_OLE_A2	Brassica oleracea L. convar. acephala (DC.) Alef. var. sabellica L.	Brassica (Curly Kale Group)	BRASS_OLE_02	BRASS_004	Curly Kale	C_36_6
(b)41	BRASS_OLE_A2	Brassica oleracea L. convar. acephala (DC.) Alef. var. sabellica L.	Brassica (Curly Kale Group)	BRASS_OLE_02	BRASS_004	-	TC_39_4x
(b)42	BRASS_OLE_A2	Brassica oleracea L. convar. acephala (DC.) Alef. var. sabellica L. [B. oleracea L. convar. acephala var. laciniata (L.) Schulz]	Brassica (Curly Kale Group)	BRASS_OLE_02	BRASS_004	Curly Kale	C_36_5
(b)43	BRASS_OLE_A2	Brassica oleracea L. var. sabellica L.	Brassica (Curly Kale Group)	BRASS_OLE_02	BRASS_004	borecole, curly kale, dwarf Siberian kale, kitchen kale, Scotch kale	TC/35/16(1)
(b)44	BRASS_OLE_A3	Brassica oleracea L. convar. acephala (DC.) Alef. var. viridis L.	Brassica (Fodder Kale Group)	BRASS_OLE_03	BRASS_005	Fodder Kale	TC/35/16(1)

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(b)45	BRASS_OLE_A3	Brassica oleracea L. var. viridis L.	Brassica (Fodder Kale Group)	BRASS_OLE_03	BRASS_005	collards, cow cabbage, fodder kale, kale, spring-heading cabbage, tall kale, tree kale	TC/35/16(1)
(b)46	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef.	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	-	TC_39_4x
(b)47	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef.	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	-	C_36_6
(b)48	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef. var. botrytis	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	Cauliflower	C_36_5
(b)49	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef. var. botrytis	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	Cauliflower	C_36_6
(b)50	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef. var. botrytis	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	Cauliflower	TC/35/16(1)
(b)51	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef. var. botrytis	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	-	TC_39_4x
(b)52	BRASS_OLE_C1	Brassica oleracea L. convar. capitata (L.) Alef. var. alba DC.	Brassica (White Cabbage Group)	BRASS_OLE_05	BRASS_007	White Cabbage	TC/35/16(1)
(b)53	BRASS_OLE_C1	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. alba DC.	Brassica (White Cabbage Group)	BRASS_OLE_05	BRASS_007	White Cabbage	TC/35/16(1)
(b)54	BRASS_OLE_C1	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. alba DC. [var. alba DC.]	Brassica (White Cabbage Group)	BRASS_OLE_05	BRASS_007	White Cabbage	C_36_5
(b)55	BRASS_OLE_C1	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. alba DC. [var. alba DC.]	Brassica (White Cabbage Group)	BRASS_OLE_05	BRASS_007	White Cabbage	C_36_6
(b)56	BRASS_OLE_C1	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. alba DC. [var. alba DC.]	Brassica (White Cabbage Group)	BRASS_OLE_05	BRASS_007	-	TC_39_4x
(b)57	BRASS_OLE_C2	Brassica oleracea L. convar. capitata (L.) Alef. var. bullata DC.	Brassica (Savoy Cabbage Group)	BRASS_OLE_06	BRASS_008	Savoy Cabbage	TC/35/16(1)
(b)58	BRASS_OLE_C2	Brassica oleracea L. convar. capitata (L.) Alef. var. sabauda L.	Brassica (Savoy Cabbage Group)	BRASS_OLE_06	BRASS_008	Savoy Cabbage	TC/35/16(1)
(b)59	BRASS_OLE_C2	Brassica oleracea L. convar. capitata (L.) Alef. var. sabauda L. [var. bullata DC. + var. sabauda L.]	Brassica (Savoy Cabbage Group)	BRASS_OLE_06	BRASS_008	Savoy Cabbage	C_36_5
(b)60	BRASS_OLE_C2	Brassica oleracea L. convar. capitata (L.) Alef. var. sabauda L. [var. bullata DC. + var. sabauda L.]	Brassica (Savoy Cabbage Group)	BRASS_OLE_06	BRASS_008	Savoy Cabbage	C_36_6
(b)61	BRASS_OLE_C2	Brassica oleracea L. convar. capitata (L.) Alef. var. sabauda L. [var. bullata DC. + var. sabauda L.]	Brassica (Savoy Cabbage Group)	BRASS_OLE_06	BRASS_008	-	TC_39_4x
(b)62	BRASS_OLE_C3	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. rubra (L.) Thell.	Brassica (Red Cabbage Group)	BRASS_OLE_07	BRASS_009	Red Cabbage	TC/35/16(1)
(b)63	BRASS_OLE_C3	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. rubra (L.) Thell. [var. rubra (L.) Thell.]	Brassica (Red Cabbage Group)	BRASS_OLE_07	BRASS_009	Red Cabbage	C_36_5
(b)64	BRASS_OLE_C3	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. rubra (L.) Thell. [var. rubra (L.) Thell.]	Brassica (Red Cabbage Group)	BRASS_OLE_07	BRASS_009	Red Cabbage	C_36_6
(b)65	BRASS_OLE_C3	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. rubra (L.) Thell. [var. rubra (L.) Thell.]	Brassica (Red Cabbage Group)	BRASS_OLE_07	BRASS_009	-	TC_39_4x

Line no.	UPOV Code (Current)	Botanical name	New classification	UPOV Code (Option 1)	UPOV Code (Option 2)	Common Name	Source Document
(b)66	BRASS_OLE_C3	Brassica oleracea L. convar. capitata (L.) Alef. var. rubra (L.) Thell.	Brassica (Red Cabbage Group)	BRASS_OLE_07	BRASS_009	Red Cabbage	TC/35/16(1)
(b)67	BRASS_OLE_GEM	Brassica oleracea L. convar. oleracea var. gemmifera DC.	Brassica (Brussels Sprout Group)	BRASS_OLE_08	BRASS_010	Brussels Sprouts	TC/35/16(1)
(b)68	BRASS_OLE_GEM	Brassica oleracea L. convar. oleracea var. gemmifera DC. [var. bullata DC. subvar. gemmifera DC.]	Brassica (Brussels Sprout Group)	BRASS_OLE_08	BRASS_010	Brussels Sprouts	C_36_5
(b)69	BRASS_OLE_GEM	Brassica oleracea L. convar. oleracea var. gemmifera DC. [var. bullata DC. subvar. gemmifera DC.]	Brassica (Brussels Sprout Group)	BRASS_OLE_08	BRASS_010	Brussels Sprouts	C_36_6
(b)70	BRASS_OLE_GEM	Brassica oleracea L. convar. oleracea var. gemmifera DC. [var. bullata DC. subvar. gemmifera DC.]	Brassica (Brussels Sprout Group)	BRASS_OLE_08	BRASS_010	-	TC_39_4x
(b)71	BRASS_OLE_GEM	Brassica oleracea L. var. gemmifera Zenker	Brassica (Brussels Sprout Group)	BRASS_OLE_08	BRASS_010	Brussels Sprouts	TC/35/16(1)
(b)72	BRASS_OLE_GON	Brassica oleracea L. convar. acephala (DC.) Alef. var. gongylodes L.	Brassica (Kohlrabi Group)	BRASS_OLE_09	BRASS_011	Kohlrabi	C_36_5
(b)73	BRASS_OLE_GON	Brassica oleracea L. convar. acephala (DC.) Alef. var. gongylodes L.	Brassica (Kohlrabi Group)	BRASS_OLE_09	BRASS_011	Kohlrabi	C_36_6
(b)74	BRASS_OLE_GON	Brassica oleracea L. convar. acephala (DC.) Alef. var. gongylodes L.	Brassica (Kohlrabi Group)	BRASS_OLE_09	BRASS_011	Kohlrabi	TC/35/16(1)
(b)75	BRASS_OLE_GON	Brassica oleracea L. convar. acephala (DC.) Alef. var. gongylodes L.	Brassica (Kohlrabi Group)	BRASS_OLE_09	BRASS_011	-	TC_39_4x
(b)76	BRASS_OLE_GON	Brassica oleracea L. var. gongylodes L.	Brassica (Kohlrabi Group)	BRASS_OLE_09	BRASS_011	cabbage turnip, kohlrabi, stem turnip	TC/35/16(1)
(b)77	BRASS_OLE_ITA	Brassica oleracea L. convar. botrytis (L.) Alef. var. cymosa Duch. [var. italica Plenck]	Brassica (Broccoli Group)	BRASS_OLE_10	BRASS_012	Sprouting Broccoli, Calabrese	C_36_5
(b)78	BRASS_OLE_ITA	Brassica oleracea L. convar. botrytis (L.) Alef. var. cymosa Duch. [var. italica Plenck]	Brassica (Broccoli Group)	BRASS_OLE_10	BRASS_012	Sprouting Broccoli, Calabrese	C_36_6
(b)79	BRASS_OLE_ITA	Brassica oleracea L. convar. botrytis (L.) Alef. var. cymosa Duch. [var. italica Plenck]	Brassica (Broccoli Group)	BRASS_OLE_10	BRASS_012	-	TC_39_4x
(b)80	BRASS_OLE_ITA	Brassica oleracea L. convar. botrytis (L.) Alef. var. italica Plenck	Brassica (Broccoli Group)	BRASS_OLE_10	BRASS_012	Sprouting Broccoli, Calabrese	TC/35/16(1)
(b)81	BRASS_OLE_ITA	Brassica oleracea L. var. italica Plenck	Brassica (Broccoli Group)	BRASS_OLE_10	BRASS_012	asparagus broccoli, broccoli, calabrese, Cape broccoli, heading broccoli, purple cauliflower, sprouting broccoli, winter broccoli	TC/35/16(1)
(b)82	BRASS_RAP	* Brassica rapa L.	-	BRASS_RAP	???	-	ISTA
(b)83	BRASS_RAP	* Brassica rapa L.	-	BRASS_RAP	???	-	TC_39_4x
(b)84	BRASS_RAP	Brassica rapa L. [partim]	-	BRASS_RAP	???	-	TC_39_4x
(b)85	BRASS_RAP	* Brassica rapa L.*	-	BRASS_RAP	???	-	C_36_6
(b)86	BRASS_RAP_PEK	* Brassica pekinensis (Lour.) Rupr.	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	-	ISTA
(b)87	BRASS_RAP_PEK	* Brassica pekinensis (Lour.) Rupr.	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	Chinese Cabbage	TC/35/16(1)
(b)88	BRASS_RAP_PEK	* Brassica pekinensis (Lour.) Rupr.	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	-	TC_39_4x

Line no.	UPOV Code (Current)	Botanical name	New classification	UPOV Code (Option 1)	UPOV Code (Option 2)	Common Name	Source Document
(b)89	BRASS_RAP_PEK	* Brassica pekinensis (Lour.) Rupr. [B. rapa L. emend. Metzg. ssp. pekinensis (Lour.) Hanelt; B. Campestris L. ssp. pekinensis (Lour.) Olsson]	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	Chinese Cabbage	C_36_5
(b)90	BRASS_RAP_PEK	* Brassica pekinensis (Lour.) Rupr.* [B. rapa L. emend. Metzg. ssp. pekinensis (Lour.) Hanelt; B. Campestris L. ssp. pekinensis (Lour.) Olsson]	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	Chinese Cabbage	C_36_6
(b)91	BRASS_RAP_PEK	Brassica rapa L. emend. Metzg. ssp. pekinensis (Lour.) Hanelt	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	Chinese Cabbage	TC/35/16(1)
(b)92	BRASS_RAP_RAP	Brassica rapa L. ssp. rapa; var. rapifera Metzg.	Brassica (Turnip Group)	BRASS_RAP_02	BRASS_014	Turnip	TC/35/16(1)
(b)93	BRASS_RAP_RAP	Brassica rapa L. var. rapa (L.) Thell.	Brassica (Turnip Group)	BRASS_RAP_02	BRASS_014	Turnip	TC/35/16(1)
(b)94	BRASS_RAP_RAP	Brassica rapa L. var. rapa (L.) Thell. [ssp. rapa; var. rapifera Metzg.]	Brassica (Turnip Group)	BRASS_RAP_02	BRASS_014	Turnip	C_36_5
(b)95	BRASS_RAP_RAP	Brassica rapa L. var. rapa (L.) Thell. [ssp. rapa; var. rapifera Metzg.]	Brassica (Turnip Group)	BRASS_RAP_02	BRASS_014	Turnip	C_36_6
(b)96	BRASS_RAP_RAP	Brassica rapa L. var. rapa (L.) Thell. [var. rapifera Metzg.]	Brassica (Turnip Group)	BRASS_RAP_02	BRASS_014	-	TC_39_4x
(b)97	BRASS_RAP_SIL	Brassica rapa L. var. silvestris (Lam.) Briggs	Brassica (Turnip Rape Group)	BRASS_RAP_03	BRASS_015	Turnip Rape	TC/35/16(1)
(b)98	BRASS_RAP_SIL	Brassica rapa L. var. silvestris (Lam.) Briggs [var. oleifera (DC.) Metzg.]	Brassica (Turnip Rape Group)	BRASS_RAP_03	BRASS_015	Turnip Rape	C_36_5
(b)99	BRASS_RAP_SIL	Brassica rapa L. var. silvestris (Lam.) Briggs [var. oleifera (DC.) Metzg.]	Brassica (Turnip Rape Group)	BRASS_RAP_03	BRASS_015	Turnip Rape	C_36_6
(b)100	BRASS_RAP_SIL	Brassica rapa L. var. silvestris (Lam.) Briggs [var. oleifera Metzg.]	Brassica (Turnip Rape Group)	BRASS_RAP_03	BRASS_015	-	TC_39_4x
(b)101	BRASS_RAP_CAM	* Brassica campestris L.	-	BRASS_RAP_CAM	???	-	ISTA
(b)102	BRASS_RAP_NI	Brassica japonica sieb	-	BRASS_RAP_NI	???	-	UPOV-ROM
(b)103	BRASS_RAP_NI	Brassica rapa L. subsp. nipposinica (L. H. Bailey) Hanelt	-	BRASS_RAP_NI	???	-	UPOV-ROM
(b)104	BRASS_RAP_PER	* Brassica perviridis (L. H. Bailey) L. H. Bailey	-	BRASS_RAP_PER	???	-	ISTA
(b)105	???	Brassica cauliflora lizg	-	???	???	-	UPOV-ROM
(b)106	BRASS_RAP_CHI	* Brassica chinensis L.	-	???	???	-	ISTA
(b)107	BRASS_RAP_CHI	* Brassica chinensis L.	-	???	???	Chinese Cabbage, Pakchoi	TC/35/16(1)
(b)108	BRASS_RAP_CHI	* Brassica chinensis L. [B. rapa L. emend. Metzg. ssp. chinensis (L.) Hanelt]	-	???	???	Chinese Cabbage, Pakchoi	C_36_6
(b)109	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef.	-	???	???	-	C_36_6
(b)110	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef.	-	???	???	-	TC/35/16(1)
(b)111	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef.	-	???	???	-	TC_39_4x
(b)112	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. [partim]	-	???	???	-	TC_39_4x
(b)113	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. [partim] [ssp. acephala DC.]	-	???	???	~~Fodder Kale~~	C_36_6

Line no.	UPOV Code (Current)	Botanical name	New classification	UPOV Code (Option 1)	UPOV Code (Option 2)	Common Name	Source Document
(b)114	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. [partim] [ssp. acephala DC.]	-	???	???	-	TC_39_4x
(b)115	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. var. viridis L. + Brassica oleracea L. convar. acephala (DC.) Alef. var. medullosa Thell.	-	???	???	-	TC_39_4x
(b)116	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. var. viridis L. + var. medullosa Thell.	-	???	???	Fodder Kale	C_36_5
(b)117	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. var. viridis L. + var. medullosa Thell.	-	???	???	Fodder Kale	C_36_6
(b)118	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef.	-	???	???	-	TC/35/16(1)
(b)119	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef.	-	???	???	-	TC_39_4x
(b)120	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef.	-	???	???	-	C_36_6
(b)121	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata (L.) Alef.	-	???	???	Cabbage	TC/35/16(1)
(b)122	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata (L.) Alef.	-	???	???	-	TC_39_4x
(b)123	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata (L.) Alef.	-	???	???	Cabbage	C_36_6
(b)124	BRASS_OLE_C	Brassica oleracea L. var. capitata L.	-	???	???	-	TC/35/16(1)
(b)125	BRASS_OLE_A4	Brassica oleracea L. var. ramosa DC.	-	???	???	catjang, catjang cowpea, sow-pea	new
(b)126	BRASS_RAP_CHI	Brassica rapa L. emend. Metzg. ssp. chinensis (L.) Hanelt	-	???	???	Chinese Cabbage, Pakchoi	TC/35/16(1)
(b)127	BRASS_RAP_CHI	Brassica rapa L. ssp. chinensis Jusl.	-	???	???	Chinese White Cabbage, Pak Choi	C_36_6
(b)128	???	Brassica subspontanea lizg	-	???	???	-	UPOV-ROM
(c) UPOV CODE ORDER (OPTION 2)							
(c)1	BRASS_NAP_NPB	Brassica napus L. ssp. rapifera Metzg.	Brassica (Swede Group)	BRASS_NAP_01	BRASS_001	Swede	TC/35/16(1)
(c)2	BRASS_NAP_NPB	Brassica napus L. var. napobrassica (L.) Rchb.	Brassica (Swede Group)	BRASS_NAP_01	BRASS_001	Swede	TC/35/16(1)
(c)3	BRASS_NAP_NPB	Brassica napus L. var. napobrassica (L.) Rchb.	Brassica (Swede Group)	BRASS_NAP_01	BRASS_001	-	TC_39_4x
(c)4	BRASS_NAP_NPB	Brassica napus L. var. napobrassica (L.) Rchb. [ssp. rapifera Metzg.]	Brassica (Swede Group)	BRASS_NAP_01	BRASS_001	Swede	C_36_5
(c)5	BRASS_NAP_NPB	Brassica napus L. var. napobrassica (L.) Rchb.* [ssp. rapifera Metzg.]	Brassica (Swede Group)	BRASS_NAP_01	BRASS_001	Swede	C_36_6
(c)6	BRASS_NAP_NPS	Brassica napus L. emend. Metzg. ssp. napus	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	Rapeseed, Swede Rape, incl. Oilseed Rape	TC/35/16(1)
(c)7	BRASS_NAP_NPS	Brassica napus L. ssp. oleifera (Metzg.) Sinsk	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	Rapeseed, Swede Rape, incl. Oilseed Rape	TC/35/16(1)

Line no.	UPOV Code (Current)	Botanical name	New classification	UPOV Code (Option 1)	UPOV Code (Option 2)	Common Name	Source Document
(c)8	BRASS_NAP_NPS	Brassica napus L. ssp. oleifera (Metzg.) Sinsk [B. napus L.; B. napus L. var. oleifera Metzg., B. napus var. napus; B. napus L. emend. Metzg. ssp. napus]	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	Rapeseed, Swede Rape, incl. Oilseed Rape	C_36_5
(c)9	BRASS_NAP_NPS	Brassica napus L. ssp. oleifera (Metzg.) Sinsk [B. napus L.; B. napus L. var. oleifera Metzg.]	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	-	TC_39_4x
(c)10	BRASS_NAP_NPS	Brassica napus L. ssp. oleifera (Metzg.) Sinsk* [B. napus L.; B. napus L. var. oleifera Metzg., B. napus var. napus; B. napus L. emend. Metzg. ssp. napus]	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	Rapeseed, Swede Rape, incl. Oilseed Rape	C_36_6
(c)11	BRASS_NAP_NPS	Brassica napus L. var. oleifera Metzg.	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	-	sub
(c)12	BRASS_NAP_NPS	Brassica napus var. napus	Brassica (Rapeseed Group)	BRASS_NAP_02	BRASS_002	Rapeseed, Swede Rape, incl. Oilseed Rape	TC/35/16(1)
(c)13	BRASS_OLE_A1	Brassica oleracea L. convar. acephala (DC.) Alef. var. medullosa Thell.	Brassica (Marrow-stem Kale Group)	BRASS_OLE_01	BRASS_003	Marrow-stem Kale	C_36_6
(c)14	BRASS_OLE_A1	Brassica oleracea L. convar. acephala (DC.) Alef. var. medullosa Thell.	Brassica (Marrow-stem Kale Group)	BRASS_OLE_01	BRASS_003	Marrow-stem Kale	TC/35/16(1)
(c)15	BRASS_OLE_A1	Brassica oleracea L. convar. acephala (DC.) Alef. var. medullosa Thell.	Brassica (Marrow-stem Kale Group)	BRASS_OLE_01	BRASS_003	-	TC_39_4x
(c)16	BRASS_OLE_A1	Brassica oleracea L. var. medullosa Thell.	Brassica (Marrow-stem Kale Group)	BRASS_OLE_01	BRASS_003	Marrow-stem Kale	TC/35/16(1)
(c)17	BRASS_OLE_A2	Brassica oleracea L. convar. acephala (DC.) Alef. var. sabellica L.	Brassica (Curly Kale Group)	BRASS_OLE_02	BRASS_004	Curly Kale	C_36_6
(c)18	BRASS_OLE_A2	Brassica oleracea L. convar. acephala (DC.) Alef. var. sabellica L.	Brassica (Curly Kale Group)	BRASS_OLE_02	BRASS_004	-	TC_39_4x
(c)19	BRASS_OLE_A2	Brassica oleracea L. convar. acephala (DC.) Alef. var. sabellica L. [B. oleracea L. convar. acephala var. laciniata (L.) Schulz]	Brassica (Curly Kale Group)	BRASS_OLE_02	BRASS_004	Curly Kale	C_36_5
(c)20	BRASS_OLE_A2	Brassica oleracea L. var. sabellica L.	Brassica (Curly Kale Group)	BRASS_OLE_02	BRASS_004	borecole, curly kale, dwarf Siberian kale, kitchen kale, Scotch kale	TC/35/16(1)
(c)21	BRASS_OLE_A3	Brassica oleracea L. convar. acephala (DC.) Alef. var. viridis L.	Brassica (Fodder Kale Group)	BRASS_OLE_03	BRASS_005	Fodder Kale	TC/35/16(1)
(c)22	BRASS_OLE_A3	Brassica oleracea L. var. viridis L.	Brassica (Fodder Kale Group)	BRASS_OLE_03	BRASS_005	collards, cow cabbage, fodder kale, kale, spring-heading cabbage, tall kale, tree kale	TC/35/16(1)
(c)23	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef.	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	-	TC_39_4x
(c)24	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef.	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	-	C_36_6
(c)25	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef. var. botrytis	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	Cauliflower	C_36_5
(c)26	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef. var. botrytis	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	Cauliflower	C_36_6
(c)27	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef. var. botrytis	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	Cauliflower	TC/35/16(1)

Line no.	UPOV Code (Current)	Botanical name	New classification	UPOV Code (Option 1)	UPOV Code (Option 2)	Common Name	Source Document
(c)28	BRASS_OLE_BOT	Brassica oleracea L. convar. botrytis (L.) Alef. var. botrytis	Brassica (Cauliflower Group)	BRASS_OLE_04	BRASS_006	-	TC_39_4x
(c)29	BRASS_OLE_C1	Brassica oleracea L. convar. capitata (L.) Alef. var. alba DC.	Brassica (White Cabbage Group)	BRASS_OLE_05	BRASS_007	White Cabbage	TC/35/16(1)
(c)30	BRASS_OLE_C1	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. alba DC.	Brassica (White Cabbage Group)	BRASS_OLE_05	BRASS_007	White Cabbage	TC/35/16(1)
(c)31	BRASS_OLE_C1	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. alba DC. [var. alba DC.]	Brassica (White Cabbage Group)	BRASS_OLE_05	BRASS_007	White Cabbage	C_36_5
(c)32	BRASS_OLE_C1	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. alba DC. [var. alba DC.]	Brassica (White Cabbage Group)	BRASS_OLE_05	BRASS_007	White Cabbage	C_36_6
(c)33	BRASS_OLE_C1	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. alba DC. [var. alba DC.]	Brassica (White Cabbage Group)	BRASS_OLE_05	BRASS_007	-	TC_39_4x
(c)34	BRASS_OLE_C2	Brassica oleracea L. convar. capitata (L.) Alef. var. bullata DC.	Brassica (Savoy Cabbage Group)	BRASS_OLE_06	BRASS_008	Savoy Cabbage	TC/35/16(1)
(c)35	BRASS_OLE_C2	Brassica oleracea L. convar. capitata (L.) Alef. var. sabauda L.	Brassica (Savoy Cabbage Group)	BRASS_OLE_06	BRASS_008	Savoy Cabbage	TC/35/16(1)
(c)36	BRASS_OLE_C2	Brassica oleracea L. convar. capitata (L.) Alef. var. sabauda L. [var. bullata DC. + var. sabauda L.]	Brassica (Savoy Cabbage Group)	BRASS_OLE_06	BRASS_008	Savoy Cabbage	C_36_5
(c)37	BRASS_OLE_C2	Brassica oleracea L. convar. capitata (L.) Alef. var. sabauda L. [var. bullata DC. + var. sabauda L.]	Brassica (Savoy Cabbage Group)	BRASS_OLE_06	BRASS_008	Savoy Cabbage	C_36_6
(c)38	BRASS_OLE_C2	Brassica oleracea L. convar. capitata (L.) Alef. var. sabauda L. [var. bullata DC. + var. sabauda L.]	Brassica (Savoy Cabbage Group)	BRASS_OLE_06	BRASS_008	-	TC_39_4x
(c)39	BRASS_OLE_C3	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. rubra (L.) Thell.	Brassica (Red Cabbage Group)	BRASS_OLE_07	BRASS_009	Red Cabbage	TC/35/16(1)
(c)40	BRASS_OLE_C3	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. rubra (L.) Thell. [var. rubra (L.) Thell.]	Brassica (Red Cabbage Group)	BRASS_OLE_07	BRASS_009	Red Cabbage	C_36_5
(c)41	BRASS_OLE_C3	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. rubra (L.) Thell. [var. rubra (L.) Thell.]	Brassica (Red Cabbage Group)	BRASS_OLE_07	BRASS_009	Red Cabbage	C_36_6
(c)42	BRASS_OLE_C3	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata L. f. rubra (L.) Thell. [var. rubra (L.) Thell.]	Brassica (Red Cabbage Group)	BRASS_OLE_07	BRASS_009	-	TC_39_4x
(c)43	BRASS_OLE_C3	Brassica oleracea L. convar. capitata (L.) Alef. var. rubra (L.) Thell.	Brassica (Red Cabbage Group)	BRASS_OLE_07	BRASS_009	Red Cabbage	TC/35/16(1)
(c)44	BRASS_OLE_GEM	Brassica oleracea L. convar. oleracea var. gemmifera DC.	Brassica (Brussels Sprout Group)	BRASS_OLE_08	BRASS_010	Brussels Sprouts	TC/35/16(1)
(c)45	BRASS_OLE_GEM	Brassica oleracea L. convar. oleracea var. gemmifera DC. [var. bullata DC. subvar. gemmifera DC.]	Brassica (Brussels Sprout Group)	BRASS_OLE_08	BRASS_010	Brussels Sprouts	C_36_5
(c)46	BRASS_OLE_GEM	Brassica oleracea L. convar. oleracea var. gemmifera DC. [var. bullata DC. subvar. gemmifera DC.]	Brassica (Brussels Sprout Group)	BRASS_OLE_08	BRASS_010	Brussels Sprouts	C_36_6

Line no.	UPOV Code (Current)	Botanical name	New classification	UPOV Code (Option 1)	UPOV Code (Option 2)	Common Name	Source Document
(c)47	BRASS_OLE_GEM	Brassica oleracea L. convar. oleracea var. gemmifera DC. [var. bullata DC. subvar. gemmifera DC.]	Brassica (Brussels Sprout Group)	BRASS_OLE_08	BRASS_010	-	TC_39_4x
(c)48	BRASS_OLE_GEM	Brassica oleracea L. var. gemmifera Zenker	Brassica (Brussels Sprout Group)	BRASS_OLE_08	BRASS_010	Brussels Sprouts	TC/35/16(1)
(c)49	BRASS_OLE_GON	Brassica oleracea L. convar. acephala (DC.) Alef. var. gongylodes L.	Brassica (Kohlrabi Group)	BRASS_OLE_09	BRASS_011	Kohlrabi	C_36_5
(c)50	BRASS_OLE_GON	Brassica oleracea L. convar. acephala (DC.) Alef. var. gongylodes L.	Brassica (Kohlrabi Group)	BRASS_OLE_09	BRASS_011	Kohlrabi	C_36_6
(c)51	BRASS_OLE_GON	Brassica oleracea L. convar. acephala (DC.) Alef. var. gongylodes L.	Brassica (Kohlrabi Group)	BRASS_OLE_09	BRASS_011	Kohlrabi	TC/35/16(1)
(c)52	BRASS_OLE_GON	Brassica oleracea L. convar. acephala (DC.) Alef. var. gongylodes L.	Brassica (Kohlrabi Group)	BRASS_OLE_09	BRASS_011	-	TC_39_4x
(c)53	BRASS_OLE_GON	Brassica oleracea L. var. gongylodes L.	Brassica (Kohlrabi Group)	BRASS_OLE_09	BRASS_011	cabbage turnip, kohlrabi, stem turnip	TC/35/16(1)
(c)54	BRASS_OLE_ITA	Brassica oleracea L. convar. botrytis (L.) Alef. var. cymosa Duch. [var. italica Plenck]	Brassica (Broccoli Group)	BRASS_OLE_10	BRASS_012	Sprouting Broccoli, Calabrese	C_36_5
(c)55	BRASS_OLE_ITA	Brassica oleracea L. convar. botrytis (L.) Alef. var. cymosa Duch. [var. italica Plenck]	Brassica (Broccoli Group)	BRASS_OLE_10	BRASS_012	Sprouting Broccoli, Calabrese	C_36_6
(c)56	BRASS_OLE_ITA	Brassica oleracea L. convar. botrytis (L.) Alef. var. cymosa Duch. [var. italica Plenck]	Brassica (Broccoli Group)	BRASS_OLE_10	BRASS_012	-	TC_39_4x
(c)57	BRASS_OLE_ITA	Brassica oleracea L. convar. botrytis (L.) Alef. var. italica Plenck	Brassica (Broccoli Group)	BRASS_OLE_10	BRASS_012	Sprouting Broccoli, Calabrese	TC/35/16(1)
(c)58	BRASS_OLE_ITA	Brassica oleracea L. var. italica Plenck	Brassica (Broccoli Group)	BRASS_OLE_10	BRASS_012	asparagus broccoli, broccoli, calabrese, Cape broccoli, heading broccoli, purple cauliflower, sprouting broccoli, winter broccoli	TC/35/16(1)
(c)59	BRASS_RAP_PEK	* Brassica pekinensis (Lour.) Rupr.	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	-	ISTA
(c)60	BRASS_RAP_PEK	* Brassica pekinensis (Lour.) Rupr.	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	Chinese Cabbage	TC/35/16(1)
(c)61	BRASS_RAP_PEK	* Brassica pekinensis (Lour.) Rupr.	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	-	TC_39_4x
(c)62	BRASS_RAP_PEK	* Brassica pekinensis (Lour.) Rupr. [B. rapa L. emend. Metzg. ssp. pekinensis (Lour.) Hanelt; B. Campestris L. ssp. pekinensis (Lour.) Olsson]	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	Chinese Cabbage	C_36_5
(c)63	BRASS_RAP_PEK	* Brassica pekinensis (Lour.) Rupr.* [B. rapa L. emend. Metzg. ssp. pekinensis (Lour.) Hanelt; B. Campestris L. ssp. pekinensis (Lour.) Olsson]	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	Chinese Cabbage	C_36_6
(c)64	BRASS_RAP_PEK	Brassica rapa L. emend. Metzg. ssp. pekinensis (Lour.) Hanelt	Brassica (Chinese Cabbage Group)	BRASS_RAP_01	BRASS_013	Chinese Cabbage	TC/35/16(1)
(c)65	BRASS_RAP_RAP	Brassica rapa L. ssp. rapa; var. rapifera Metzg.	Brassica (Turnip Group)	BRASS_RAP_02	BRASS_014	Turnip	TC/35/16(1)
(c)66	BRASS_RAP_RAP	Brassica rapa L. var. rapa (L.) Thell.	Brassica (Turnip Group)	BRASS_RAP_02	BRASS_014	Turnip	TC/35/16(1)
(c)67	BRASS_RAP_RAP	Brassica rapa L. var. rapa (L.) Thell. [ssp. rapa; var. rapifera Metzg.]	Brassica (Turnip Group)	BRASS_RAP_02	BRASS_014	Turnip	C_36_5

Line no.	UPOV Code (Current)	Botanical name	New classification	UPOV Code (Option 1)	UPOV Code (Option 2)	Common Name	Source Document
(c)68	BRASS_RAP_RAP	Brassica rapa L. var. rapa (L.) Thell. [ssp. rapa; var. rapifera Metzg.]	Brassica (Turnip Group)	BRASS_RAP_02	BRASS_014	Turnip	C_36_6
(c)69	BRASS_RAP_RAP	Brassica rapa L. var. rapa (L.) Thell. [var. rapifera Metzg.]	Brassica (Turnip Group)	BRASS_RAP_02	BRASS_014	-	TC_39_4x
(c)70	BRASS_RAP_SIL	Brassica rapa L. var. silvestris (Lam.) Briggs	Brassica (Turnip Rape Group)	BRASS_RAP_03	BRASS_015	Turnip Rape	TC/35/16(1)
(c)71	BRASS_RAP_SIL	Brassica rapa L. var. silvestris (Lam.) Briggs [var. oleifera (DC.) Metzg.]	Brassica (Turnip Rape Group)	BRASS_RAP_03	BRASS_015	Turnip Rape	C_36_5
(c)72	BRASS_RAP_SIL	Brassica rapa L. var. silvestris (Lam.) Briggs [var. oleifera (DC.) Metzg.]	Brassica (Turnip Rape Group)	BRASS_RAP_03	BRASS_015	Turnip Rape	C_36_6
(c)73	BRASS_RAP_SIL	Brassica rapa L. var. silvestris (Lam.) Briggs [var. oleifera Metzg.]	Brassica (Turnip Rape Group)	BRASS_RAP_03	BRASS_015	-	TC_39_4x
(c)74	BRASS_RAP_CAM	* Brassica campestris L.	-	BRASS_RAP_CAM	???	-	ISTA
(c)75	BRASS_CAR	Brassica carinata A. Braun	-	BRASS_CAR	???	Abyssinian Mustard, Texsel Greens	TC/35/16(1)
(c)76	BRASS_CAR	Brassica carinata A. Braun	-	BRASS_CAR	???	-	TC_39_4x
(c)77	BRASS_CAR	Brassica carinata L.	-	BRASS_CAR	???	-	TC_39_4x
(c)78	???	Brassica cauliflora lizg	-	???	???	-	UPOV-ROM
(c)79	BRASS_RAP_CHI	* Brassica chinensis L.	-	???	???	-	ISTA
(c)80	BRASS_RAP_CHI	* Brassica chinensis L.	-	???	???	Chinese Cabbage, Pakchoi	TC/35/16(1)
(c)81	BRASS_RAP_CHI	* Brassica chinensis L. [B. rapa L. emend. Metzg. ssp. chinensis (L.) Hanelt]	-	???	???	Chinese Cabbage, Pakchoi	C_36_6
(c)82	BRASS_RAP_NI	Brassica japonica sieb	-	BRASS_RAP_NI	???	-	UPOV-ROM
(c)83	BRASS_JUN	* Brassica juncea (L.) Czern.	-	BRASS_JUN	???	-	ISTA
(c)84	BRASS_JUN	Brassica juncea (L.) Czern. et Coss. in Czern.	-	BRASS_JUN	???	Brown Mustard	C_36_5
(c)85	BRASS_JUN	Brassica juncea (L.) Czern. et Coss. in Czern.	-	BRASS_JUN	???	Brown Mustard	TC/35/16(1)
(c)86	BRASS_JUN	Brassica juncea (L.) Czern. et Coss. in Czern.	-	BRASS_JUN	???	-	TC_39_4x
(c)87	BRASS_JUN	Brassica juncea (L.) Czern. et Coss. in Czern.*	-	BRASS_JUN	???	Brown Mustard	C_36_6
(c)88	BRASS_NAP	Brassica napus hort.	-	BRASS_NAP	???	-	TC_39_4x
(c)89	BRASS_NAP	* Brassica napus L.	-	BRASS_NAP	???	-	ISTA
(c)90	BRASS_NAP	* Brassica napus L.	-	BRASS_NAP	???	-	TC/35/16(1)
(c)91	BRASS_NAP	* Brassica napus L.	-	BRASS_NAP	???	-	TC_39_4x
(c)92	BRASS_NAP	* Brassica napus L.	-	BRASS_NAP	???	-	C_36_6
(c)93	BRASS_NAP	Brassica napus L. [partim]	-	BRASS_NAP	???	-	TC_39_4x
(c)94	BRASS_NIG	* Brassica nigra (L.) W. D. J. Koch	-	BRASS_NIG	???	-	ISTA
(c)95	BRASS_NIG	Brassica nigra (L.) W. Koch	-	BRASS_NIG	???	Black Mustard	TC/35/16(1)
(c)96	BRASS_NIG	Brassica nigra (L.) W. Koch	-	BRASS_NIG	???	-	TC_39_4x
(c)97	BRASS_NIG	* Brassica nigra (L.) W.D.J. Koch	-	BRASS_NIG	???	Black Mustard	C_36_6
(c)98	BRASS_OLE	* Brassica oleracea L.	-	BRASS_OLE	???	-	ISTA
(c)99	BRASS_OLE	* Brassica oleracea L.	-	BRASS_OLE	???	-	TC/35/16(1)
(c)100	BRASS_OLE	* Brassica oleracea L.	-	BRASS_OLE	???	-	TC_39_4x
(c)101	BRASS_OLE	* Brassica oleracea L.	-	BRASS_OLE	???	-	C_36_6
(c)102	BRASS_OLE	Brassica oleracea L. [partim]	-	BRASS_OLE	???	-	TC_39_4x
(c)103	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef.	-	???	???	-	C_36_6

Line no.	UPOV Code (Current)	Botanical name	New classification	UPOV Code (Option 1)	UPOV Code (Option 2)	Common Name	Source Document
(c)104	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef.	-	???	???	-	TC/35/16(1)
(c)105	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef.	-	???	???	-	TC_39_4x
(c)106	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. [partim]	-	???	???	-	TC_39_4x
(c)107	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. [partim] [ssp. acephala DC.]	-	???	???	~~Fodder Kale~~	C_36_6
(c)108	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. [partim] [ssp. acephala DC.]	-	???	???	-	TC_39_4x
(c)109	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. var. viridis L. + Brassica oleracea L. convar. acephala (DC.) Alef. var. medullosa Thell.	-	???	???	-	TC_39_4x
(c)110	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. var. viridis L. + var. medullosa Thell.	-	???	???	Fodder Kale	C_36_5
(c)111	BRASS_OLE_A	Brassica oleracea L. convar. acephala (DC.) Alef. var. viridis L. + var. medullosa Thell.	-	???	???	Fodder Kale	C_36_6
(c)112	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef.	-	???	???	-	TC/35/16(1)
(c)113	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef.	-	???	???	-	TC_39_4x
(c)114	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef.	-	???	???	-	C_36_6
(c)115	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata (L.) Alef.	-	???	???	Cabbage	TC/35/16(1)
(c)116	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata (L.) Alef.	-	???	???	-	TC_39_4x
(c)117	BRASS_OLE_C	Brassica oleracea L. convar. capitata (L.) Alef. var. capitata (L.) Alef.	-	???	???	Cabbage	C_36_6
(c)118	BRASS_OLE_C	Brassica oleracea L. var. capitata L.	-	???	???	-	TC/35/16(1)
(c)119	BRASS_OLE_A4	Brassica oleracea L. var. ramosa DC.	-	???	???	catjang, catjang cowpea, sow-pea	new
(c)120	BRASS_RAP_PER	* Brassica perviridis (L. H. Bailey) L. H. Bailey	-	BRASS_RAP_PER	???	-	ISTA
(c)121	BRASS_RAP	* Brassica rapa L.	-	BRASS_RAP	???	-	ISTA
(c)122	BRASS_RAP	* Brassica rapa L.	-	BRASS_RAP	???	-	TC_39_4x
(c)123	BRASS_RAP	Brassica rapa L. [partim]	-	BRASS_RAP	???	-	TC_39_4x
(c)124	BRASS_RAP_CHI	Brassica rapa L. emend. Metzg. ssp. chinensis (L.) Hanelt	-	???	???	Chinese Cabbage, Pakchoi	TC/35/16(1)
(c)125	BRASS_RAP_CHI	Brassica rapa L. ssp. chinensis Jusl.	-	???	???	Chinese White Cabbage, Pak Choi	C_36_6
(c)126	BRASS_RAP_NI	Brassica rapa L. subsp. nipposinica (L. H. Bailey) Hanelt	-	BRASS_RAP_NI	???	-	UPOV-ROM
(c)127	BRASS_RAP	* Brassica rapa L.*	-	BRASS_RAP	???	-	C_36_6
(c)128	???	Brassica subspontanea lizg	-	???	???	-	UPOV-ROM

[Annex III follows]

Codes to be checked by the TWA
(Botanical name order)

CHECKING TWP											
TWA	TWF	TWO	TWV	Notes	Using authority	UPOV Code (_XXXX = hybrid; see TWV/38/3)	Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
TWA				fibre	QZ	AERVA_	Aerva Forssk.				
TWA				fibre	US	AERVA_JAV	Aerva javanica (Burm. f.) Juss. ex Schult.	Kapokbush			
TWA				fibre	IL	AERVA_JAV	Aerva persica burm f merr				
TWA				forage	AU	AESCM_VIL	Aeschynomene villosa Poir.				
TWA					unknown	AGROP_CRI_PEC	Agropyron cristatum (L.) Gaertn. subsp. pectinatum (M. Bieb.) Tzvelev var. pectinatum (M. Bieb) Tzvelev				
TWA					RU	ELTRG_INT_INT	Agropyron glaucum (Desf.) Roem. & Schult.				
TWA					RU	AGROP_CRI_PEC	Agropyron pectiniforme Roem. & Schult.				
TWA					AR	ELYMU_BRE_SCA	Agropyron scabrifolium Doell Parodi				
TWA					CA	ELYMU_TRA_SUB	Agropyron subsecundum				
TWA					NZ	AGROS_CAS	Agrostis castellana Boiss. & Reut.	Highland bent		kastilisches Straußgras	
TWA				forage	US	ALOPE_ARU	Alopecurus arundinaceus Poir.	Creeping foxtail, Creeping meadow foxtail			
TWA					RU	ALOPE_ARU	Alopecurus ventricosus Pers				
TWA		TWO			DE	AMARA_BLI	Amaranthus blitoides S. Watson	prostrate pigweed			
TWA		TWO			HU	AMARA_CAU	Amaranthus mantegazzianus				
TWA		TWO			UA	AMARA_CAU	Amaranthus mantegazzianus Pass				
TWA					ZA	ANTEP_	Antephora pubescens				
TWA					ZA	ANTHP_PUB	Anthephora pubescens Nees	Bottle Brush Grass	-	-	-
TWA					ZA	ANTHP_PUB	Anthephora pubescens Nees	Bottle Brush Grass	-	-	-
TWA					AU	ARACH_PIN	Arachis pintoi Krapov. & W. C. Greg.	Pinto peanut			maní forrajero perenne, maní perenne
TWA					US	ARCTA_LAT	Arctagrostis latifolia (R. Br.) Griseb.	Arctic grass, Polar grass, Russian grass			
TWA			TWV		QZ	ASTRG_BOE	Astragalus boeticus L.				
TWA			TWV		RU	ASTRG_ULI	Astragalus uliginosus L.				
TWA					AU	ASTRB_PEC	Astrebla pectinata (Lindl.) F. Muell.	barley Mitchell grass			
TWA					unknown	AUSTD_RIC	Austrodanthonia richardsonii (Cashmore) H. P. Linder				
TWA					US	BACHL_DAC	Bachloe dactyloides				
TWA					AU	BISER_PEL	Biserrula pelecinus L.				
TWA					AU	BOTHR_BLA	Bothriochloa bladhii (Retz.) S. T. Blake	Australian bluestem, Caucasian bluestem, Forest-bluegrass, Plains bluestem, Purple plume grass			
TWA		TWO			unknown	BRCHR_DIC	Brachiaria dictyoneura (Fig. & De Not.) Stapf				
TWA			TWV		UA	BRASS_OLE_BOT	Brassica cauliflora lizg				
TWA			TWV		RU	BRASS_RAP_NI	Brassica japonica sieb				
TWA			TWV		unknown	BRASS_OLE_COS	Brassica oleracea L. var. costata DC.	Bedford cabbage, braganza, Portugese cole, seakale cabbage, tronchuda cabbage, tronchuda kale		portugiesischer Kohl, Tronchudakohl	

CHECKING TWP											
TWA	TWF	TWO	TWV	Notes	Using authority	UPOV Code (_XXXX = hybrid; see TWV/38/3)	Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
TWA			TWV		unknown	BRASS_OLE_A4	Brassica oleracea L. var. ramosa DC.	catjang, catjang cowpea, sow-pea	dolique mongette	Catjangbohne	judía catjang
TWA			TWV		unknown	BRASS_RAP_NI	Brassica rapa L. subsp. nipposinica (L. H. Bailey) Hanelt				
TWA			TWV		RU	BRASS_OLE_GEM	Brassica subspontanea lizg				
TWA					QM	BROMU_BIE	Bromus biebersteinii Roem. & Schult.	Bieberstein brome, Meadow brome			
TWA					AR	BROMU_CAT_RUP	Bromus brevis nees				
TWA					unknown	BROMU_CAT_RUP	Bromus catharticus Vahl var. rupestris (Speg.) Planchuelo & P. M. Peterson				cebadillo pampeana
TWA					AR	BROMU_PAR	Bromus parodi subv cymosa lank				
TWA					AR, AU, NZ, QM, US,	BROMU_STA	Bromus stamineus E. Desv.	Grazing brome			
TWA					US	BROMU_SUB	Bromus subvelutinus Shear	Hoary brome, Short brome			
TWA					AR, NZ, QZ	BROMU_STA	Bromus valdivianus Phil.				
TWA					AU, US	BUCHL_DAC	Buchloë dactyloides (Nutt.) Engelm.	Buffalo Grass	Herbe aux bisons	Büffelgras	Hierba búfalo
TWA					RU	ELYMU_DAH	Clinelymus dahuricus nevski				
TWA					RU	ELYMU_SIB	Clinelymus sibiricus nevski				
TWA					JP	COIXX_MAY	Coix ma-yuen Roman.	Coix	Coix	Coix	Coix
TWA					JP	COIXX_MAY	Coix ma-yuen Roman.				
TWA					US	CYNOD_DAC_DAC	Cynodon dactylon (L.) Pers. var. dactylon	Bahama grass, Bermuda grass, devil's grass, hariali grass, quick grass	cynodon dactyle, grand chiendent	Bermudagras, Hundszahngras	grama rastrera, zacate de Bermuda
TWA					AU	CYNOD_DAC_PUL	Cynodon dactylon ssp pulchellus				
TWA					unknown	CYNOD_TRA	Cynodon transvaalensis Burtt Davy	African Bermuda grass, African dog's tooth grass, Florida grass, Transvaal quick			
TWA					AU	_XXXX	Cynodon tranvaalensis x cynodon dactylon				
TWA					unknown	DCTLS_GLO_LOB	Dactylis glomerata L. subsp. lobata (Drejer) H. Lindb.				
TWA					DE	DCTLS_GLO_LOB	Dactylis polygama Horv.				
TWA				grass	AU	DANTH_LIN	Danthonia linkii				
TWA				fodder	AU	AUSTD_RIC	Danthonia richardsonii Cashmore				
TWA			TWV		HU, PL, US	DAUCU_CAR_SAT	Daucus carota L. subsp. sativus (Hoffm.) Arcang. var. sativus Hoffm.	Carrot	Carotte	Möhre, Karotte, Mohrrübe	Zanahoria
TWA					PY	DESMA_VIR	Desmanthus virgatus (L.) Willd.	-	Dwarf koa	-	-
TWA				Algae	NL	DCTYS_PUL	Dictyosphaerium pulchellum wood				
TWA					AU, US	DGTRA_DID	Digitaria didactyla Willd.	Blue couch, blue couch grass, blue serangoon grass, green serangoon grass, Queensland blue couch			
TWA					PY, ZA	DGTRA_ERI	Digitaria eriantha Steud. ssp. eriantha	Smuts Digitaria, Common Finger Grass, Digit Grass, Pangola Grass, Woolly Finger Grass	Digitaria	Pangolagras	Pangola, Pasto Pangola
TWA					PY, ZA	DGTRA_ERI	Digitaria eriantha Steud. ssp. eriantha				

CHECKING TWP											
TWA	TWF	TWO	TWV	Notes	Using authority	UPOV Code (_XXXX = hybrid; see TWV/38/3)	Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
TWA					US	DGTRA_FLO	Digitaria floridana Hitchc.	Florida crabgrass, turf grass			
TWA					PY, ZA	DGTRA_MIL	Digitaria milanjiana (Rendle) Stapf	Digit Grass, Milanje Finger Grass, Woolly Finger Grass	-	-	Milanjiana
TWA					PY, ZA	DGTRA_NAT	Digitaria natalensis Stent	Coast Finger Grass	-	-	-
TWA					unknown	DGTRA_SWA	Digitaria swazilandensis Stent				
TWA					ES	DISTI_SPI	Distichlis spicata L.	Salt Grass	-	-	-
TWA					unknown	ELYMU_BRE_SCA	Elymus breviaristatus (Hitchc.) Á. Löve subsp. scabrifolius (Döll) Á. Löve				
TWA					RU	ELYMU_DAH	Elymus dahuricus Turcz. ex Griseb.				
TWA					QM, RU	PSATH_JUN	Elymus junceus Fisch.				
TWA					US	ELYMU_LAN_LAN	Elymus lanceolatus (Scribn. & J. G. Sm.) Gould subsp. lanceolatus	Streambank wheatgrass, thick-spike wheatgrass			
TWA					unknown	ELYMU_SIB	Elymus sibiricus L.	Wild rye			
TWA					QM	ELYMU_TRA_SUB	Elymus trachycaulus (Link) Gould ex Shinners subsp. subsecundus (Link) Á. Löve & D. Löve	Bearded wheatgrass			
TWA					QM	ELYMU_TRA_TRA	Elymus trachycaulus (Link) Gould ex Shinners subsp. trachycaulus	slender wheatgrass			
TWA					QM, US	ELTRG_INT_INT	Elytrigia intermedia (Host) Nevski subsp. intermedia	Intermediate wheatgrass, Pubescent wheatgrass	chiendent intermédiaire	graugrüne Quecke	lastón azul
TWA					unknown	ELTRG_PON	Elytrigia pontica (Podp.) Holub				
TWA					AU	ERAGR_ELO	Eragrostis elongata				
TWA					AR	ERAGR_CUR	Eragrostis robusta Stent				
TWA					US	EREMO_OPH	Eremochloa ophiuroides (Munro) Hack.	centipede grass, lazy-man's grass			
TWA					RU	KRASC_CER	Eurotia ceratoides (L.) C. A. Mey.				
TWA					unknown	FESTU_ARU_ARU	Festuca arundinacea Schreb. subsp. Arundinacea				
TWA					unknown	FESTU_ARU_ORI	Festuca arundinacea Schreb. subsp. orientalis (Hack.) Tzvelev				
TWA					US	FESTU_BRE	Festuca brevipila R. Tracey	hard fescue			
TWA					unknown	FESTU_GLA	Festuca glauca Vill.	blue fescue, gray fescue			
TWA					US	FESTU_IDA	Festuca idahoensis Elmer				
TWA					unknown	FESTU_LEM	Festuca lemanii T. Bastard				
TWA					RU	FESTU_ARU_ORI	Festuca orientalis (Hack.) Krecz. & Bobrov				
TWA					DE, DK, SE	???	Festuca ovina l ssp duriuscula				
TWA					US	FESTU_OVI	Festuca ovina l var ovina				
TWA					DE	???	Festuca ovina ssp supina				
TWA					DE	???	Festuca ovina ssp vulgaris				
TWA					DE, DK, SI	FESTU_FIL	Festuca ovina subsp. tenuifolia (Sibth.) Celak.				
TWA					DE, DK, SE	FESTU_LEM	Festuca ovina var. duriuscula auct.				
TWA					DE, DK, SE	FESTU_BRE	Festuca ovina var. duriuscula hort.				
TWA					US	FESTU_GLA	Festuca ovina var. glauca (Vill.) W. D. J. Koch				
TWA					DE	FESTU_VAL_VAL	Festuca ovina var. valesiaca (Schleich. ex Gaudin) Schleich. ex Link				
TWA					RU	FESTU_PSE	Festuca pseudodalmatica Krajina ex Domin				

CHECKING TWP											
TWA	TWF	TWO	TWV	Notes	Using authority	UPOV Code (_XXXX = hybrid; see TWV/38/3)	Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
TWA					FR, NZ, UA, US	???	Festuca rubra l ssp commutata				
TWA					FR, NZ, UA, US	???	Festuca rubra l subsp commutata gaud				
TWA					SI	FESTU_RUB_FAL	Festuca rubra L. subsp. fallax (Thuill.) Nyman	Chewing's fescue			
TWA					FR	FESTU_RUB_PRU	Festuca rubra L. subsp. pruinosa (Hack.) Piper				
TWA					NZ, US, FR	FESTU_RUB_RUB	Festuca rubra L. subsp. rubra	red fescue	Fétuque rouge	Rotschwingel	Cañuela roja
TWA					FR, US	FESTU_RUB_LIT	Festuca rubra L. var. littoralis Vasey				
TWA					SI	FESTU_RUB_RUB	Festuca rubra subsp. vulgaris (Gaudin) Hayek				
TWA					FR, NZ, UA, US	FESTU_RUB_FAL	Festuca rubra var. commutata Gaudin				
TWA					UA	FESTU_BRE	Festuca trachyphylla hack krajina				
TWA					unknown	FESTU_VAL_VAL	Festuca valesiaca Schleich. ex Gaudin subsp. valesiaca				
TWA					DE, IT	FESTU_	Festulolium				
TWA					US	GLYCR_ISC	Glyceria ischyroneura Steud.				
TWA					AU	GLYCI_LAT	Glycine latifolia (Benth.) C. A. Newell & Hymowitz				
TWA					AR	NEONO_WIG	Glycine wightii grahan ex a rnott ver				
TWA					KG, MA	GOSSY_BAR	Gossypium barbadense L.	West Indian Cotton, American Pima Cotton, American-Egyptian Cotton, Brazilian Cotton, Egyptian Cotton, Gallini Cotton, Kidney Cotton, Long-staple Cotton, Peruvian Cotton, Pima Cotton, Sea Island Cotton, Upland Cotton	Cotonnier des Indes occidentales, Cotonnier d'Egypte	Westindische Baumwolle, Sea Island Baumwolle	Algodón de las Indias occidentales, Algodón, Algodonero de las Barbados
TWA					unknown	ALYSI_VAG	Hedysarum vaginale L. [Alysicarpus vaginalis (L.) DC.]	Alyce Clover, One-leaved Clover, Buffalo-clover	Alysicarpus	-	maní camarrón
TWA					NZ, QZ, US	HLNTS_SAL	Helianthus salicifolius A. Dietr.	willow-leaf sunflower			
TWA					RU, UA	_XXXX	Helianthus tuberosus l x helianthus annuus l				
TWA					RU	HERAC_SOS	Heracleum sosnowskyi Manden.				
TWA					unknown	HORDE_VUL	Hordeum distichum jessen				
TWA					RO	HORDE_VUL_VUL	Hordeum distichum var nutans				
TWA					unknown	HORDE_VUL_VUL	Hordeum sativum Jess.				
TWA					AR	HORDE_VUL	Hordeum vulgare l convar distichon l				
TWA					SI	HORDE_VUL	Hordeum vulgare l ssp polystichum hall schinz et kell				
TWA					AR	HORDE_VUL_VUL	Hordeum vulgare L. subsp. vulgare	Barley	Orge	Gerste, Saatgerste	Cebada
TWA					DE	ISATI_TIN	Isatis tinctoria L.	dyer's woad, woad	pastel des teinturiers, teinturiére	Färberwaid	hierba pastel
TWA					unknown	KRASC_CER	Krascheninnikovia ceratoides (L.) Gueldenst.	Pamirian winterfat			
TWA		TWO			RU	LATHY_CHL	Lathyrus chloranthus Boiss.				
TWA		TWO			RU	LATHY_SAT	Lathyrus sativus l var rubra				
TWA		TWO			RU	LATHY_SYL	Lathyrus sylvestris L.	flat peavine, flat-pea, narrow-leaf everlasting-pea	gesse sauvage	Waldplatterbse	cicércula silvestre, guija silvestre
TWA		TWO			US	_XXXX	Lathyrus tingitanus l x lathyrus sativus l				

CHECKING TWP											
TWA	TWF	TWO	TWV	Notes	Using authority	UPOV Code (_XXXX = hybrid; see TWV/38/3)	Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
TWA					AR, US	LESPE_CUN	Lespedeza cuneata (Dum. Cours.) G. Don	Chinese bush-clover, Chinese lespedeza, perennial lespedeza, sericea lespedeza, silky bush-clover	lespédéza soyeux	japanischer Klee	lespedeza perenne
TWA					RU	LESPE_	Lespedeza Michx.				
TWA					UA	LINUM_AUS	Linum austriacum L.			österreichischer Lein	
TWA					UA	LINUM_USI	Linum humile Mill.				
TWA					PL	LINUM_USI_MED	Linum usitatissimum l convar mediterraneum vavilov ex ell kulpa et danert				
TWA					RU	LINUM_USI	Linum usitatissimum l f elongata				
TWA					UA	LINUM_USI	Linum usitatissimum l s stricta				
TWA					RU	LINUM_USI	Linum usitatissimum l var intermedia vav et ell				
TWA					AT, NO, SE	LOLIU_MUL_WES	Lolium multiflorum lam ssp alternativum				
TWA					AT, NO, SE	LOLIU_MUL_ITA	Lolium multiflorum lam ssp non alternativum				
TWA					US	LOTUS_BER	Lotus berthelotii Lowe ex Masf.	coralgem, parrot's-beak, pelican's-beak, winged-pea			
TWA					US	_XXXX	Lotus berthelotii times lotus maculata				
TWA					US	LOTUS_COR_CCO	Lotus corniculatus L. subsp. corniculatus var. corniculatus				
TWA					unknown	LOTUS_MAC	Lotus maculatus Breitf.				
TWA					AU	_XXXX	Lotus maculatus x berthelotii				
TWA					AU, NZ	LOTUS_PED	Lotus pedunculatus Cav.	big trefoil			
TWA					UY	LOTUS_SUB	Lotus subbiflorus ssp subbiflorus				
TWA					unknown	MEDIC_DOL	Medicago doliata Carmign.				
TWA					unknown	MEDIC_MUR	Medicago murex Willd.				
TWA					ZA	MEDIC_POL_BRE	Medicago polymorpha L. var. brevispina (Benth.) Heyn				
TWA					PL	_XXXX	Medicago sativa l falcata x ssp sativa				
TWA					RU	MEDIC_SAT_VAR	Medicago sativa L. nothosubsp. varia (Martyn) Arcang.	bastard medic, sand lucerne, variegated lucerne	luzerne bigarrée, luzerne intermédiaire	Bastardluzerne, Sandluzerne	alfalfa de las arenas, alfalfa híbrida
TWA					PL	MEDIC_SAT_SAT	Medicago sativa L. subsp. sativa	Lucerne, Alfalfa	Luzerne	Blaue Luzerne, Luzerne	mielga
TWA					ZA	MEDIC_MUR	Medicago sphaerocarpos Bertol. (M. murex Willd.)	Sphere Medick	-	-	-
TWA					RU	MELIL_SUA	Melilotus suaveolens Ledeb.	Daghestan sweet-clover			
TWA				grass	AU	MICLN_STI	Microlaena stipoides (Labill.) R. Br.	weeping grass			
TWA					unknown	???	Nicotiana virjinium l				
TWA					NZ	???	Ornithopus intybus l				
TWA					QM	_XXXX	Ornithopus sativus brot x o compressus l				
TWA		TWO			AR	PANIC_COL_MAK	Panicum coloratum L. var. makarikariensis Gooss.				
TWA		TWO			AU	PANIC_LAX	Panicum laxum Sw.				
TWA			TWV		HU	PAPAV_BRA	Papaver bracteatum Lindl.	great scarlet poppy, scarlet poppy		Arzneimohn	
TWA					AR, AU, US	PASPA_SCR	Paspalum atratum Swallen				
TWA					AR	PASPA_GUE	Paspalum guenoarum Arechav.	wintergreen paspalum			pasto rojo
TWA					AU	PASPA_NIC	Paspalum nicorae Parodi	Brunswick grass			

CHECKING TWP											
TWA	TWF	TWO	TWV	Notes	Using authority	UPOV Code (_XXXX = hybrid; see TWV/38/3)	Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
TWA		TWO			AU	PENNI_ALO	Pennisetum alopecuroides (L.) Spreng.	Chinese fountain grass, foxtail fountain grass, swamp foxtail grass, swamp-foxtail			
TWA		TWO			US	PENNI_FLA	Pennisetum flaccidum Griseb.	flaccid grass, Himalayan fountain grass			
TWA					AR	PHALR_ANG	Phalaris angusta Nees ex Trin.	timothy canary grass			
TWA					HU	PHALR_ARU	Phalaris arundinacea l dumo				
TWA					DE	PHLEU_HIR	Phleum hirsutum Honck.				
TWA					DE	PHLEU_RHA	Phleum rhaeticum (Humphries) Rauschert			Graubündener Lieschgras	
TWA			TWV		UA	PISUM_SAT_SAR	Pisum arvense L.				
TWA			TWV		HU	PISUM_SAT	Pisum sativum l convar axiphi				
TWA			TWV		NO	PISUM_SAT	Pisum sativum l convar axiphium alef				
TWA			TWV		HU	PISUM_SAT	Pisum sativum l convar medull				
TWA			TWV		CZ, SI,	PISUM_SAT	Pisum sativum l convar medullare alef emend c o lehm				
TWA			TWV		HU, PL,	PISUM_SAT_SSA	Pisum sativum l convar sativum				
TWA			TWV		PL	PISUM_SAT	Pisum sativum l ssp sativum convar axiphium alef emend c o lehm				
TWA			TWV		RO	PISUM_SAT	Pisum sativum l ssp sativum convar medulare				
TWA			TWV		PL	PISUM_SAT	Pisum sativum l ssp sativum convar medullare alef emend c o lehm et convar				
TWA			TWV		BE, BG	PISUM_SAT_SAR	Pisum sativum l var arvense l gams				
TWA			TWV		PL	PISUM_SAT_S	Pisum sativum L. subsp. sativum				
TWA			TWV		unknown	PISUM_SAT_SAR	Pisum sativum L. subsp. sativum var. arvense (L.) Poir.	Austrian winter pea, field pea	pois de champs, pois fourrager	Felderbse, Futtererbse	guisante de campo
TWA			TWV		PL	PISUM_SAT_SSA	Pisum sativum L. subsp. sativum var. sativum	garden pea, green pea	petit pois, pois de jardins	Gartenerbse, Speiseerbse	arveja, guisante
TWA			TWV		HU, SK	PISUM_SAT_SSA	Pisum sativum var. speciosum (Alef.) Makasheva				
TWA			TWV		AU	_XXXX	Pisum x vicia				
TWA					HU	POAAA_PRA_ANG	Poa angustifolia L.				
TWA					AU, CA, QZ, US	_XXXX	Poa arachnifera x poa pratensis				
TWA					AU	POAAA_ENS	Poa ensiformis Vickery				
TWA					US	POAAA_GLA	Poa glauca Vahl	glaucantha bluegrass, glaucous bluegrass, glaucous meadow grass, upland bluegrass		blaugrünes Rispengras	
TWA					AU	POAAA_LAB	Poa labillardieri C. V. Eskdale				
TWA					AU	POAAA_POI	Poa poiformis				
TWA					unknown	POAAA_PRA_ANG	Poa pratensis L. subsp. angustifolia (L.) Dumort.	narrow-leaf meadow grass		schmalblättriges Rispengras	
TWA		TWO		forage, bee	US	PROSO_GLA	Prosopis glandulosa Torr.	honey mesquite, mesquite			
TWA					US	PUCCI_DIS	Puccinellia distans (Jacq.) Parl.	European alkali grass, reflexed salt grass, slender alkali grass, weeping alkali grass		gemeiner Salzschwaden	
TWA					DK	PUCCI_MAR	Puccinellia maritima (Huds.) Parl.				

CHECKING TWP											
TWA	TWF	TWO	TWV	Notes	Using authority	UPOV Code (_XXXX = hybrid; see TWV/38/3)	Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
TWA			TWV		IL, IT, RU, UA, ZA	RICIN_COM	Ricinus communis L.	castor, castor-bean, castor-oil-plant, palmi-christi	ricin	Rizinus	higuerilla
TWA					RU	ELYMU_TRA_TRA	Roegneria trachycaula (Link) Nevski				
TWA			TWV	food, fuel	US	SALIC_BIG	Salicornia bigelovii Torr.	dwarf glasswort			
TWA				forage	RU	SALSO_ORI	Salsola orientalis S. G. Gmel.				
TWA					DE	_XXXX	Secale cereale x secale montanum				
TWA					QZ	_XXXX	Secale montanum x secale cereale				
TWA					unknown	SETAR_ITA_ITA	Setaria italica (L.) P. Beauv. subsp. italica	foxtail bristle grass, foxtail millet, German millet, Hungarian millet, Italian millet	millet d'Italie, millet des oiseaux, petit mil, sétaire-d'Italie	Kolbenhirse	mijo de Italia, mijo menor, moha, panizo
TWA					RU	SETAR_ITA_ITA	Setaria italica subsp. maxima (Alef.) Dekapr. & Kasparian				
TWA					RU, UA	SETAR_ITA_ITA	Setaria italica var. moharia Alef. ex Hegi				
TWA	TWF	TWO	TWV		JP	???	Slenopsis axillaris				
TWA	TWF		TWV		unknown	CYPHO_BET	Solanum betaceum Cav.	tree-tomato	arbre à tomates, tomate de La Paz, tomate en arbre	Baumtomate	tamarillo, tomate de árbol, tomate serrano
TWA			TWV		NL, RU	SOLAN_SIS	Solanum sisymbriifolium Lam.				
TWA			TWV		unknown	SOLAN_TUB_TUB	Solanum tuberosum L. subsp. tuberosum	Irish potato, potato, white potato	Pomme de terre	Kartoffel	Papa, Patata
TWA					QM, UA	SRGHM_ALM	Sorghum ×almum Parodi	almum grass, almum sorghum, Columbus grass	sorgho d'Argentine	Columbusgras	sorgo negro
TWA					US	SRGHM_SUD	Sorghum ×drummondii (Steud.) Millsp. & Chase	chicken-corn, shattercane, sordan, sorghum-sudangrass, Sudan grass	sorgho du Soudan, sorgho menu	Sudangras	pasto Sudán
TWA					AU, IT, QM, SI	???	Sorghum bicolor var sudanese				
TWA					UA	???	Sorghum orysoidum				
TWA					RU, UA	SRGHM_BIC	Sorghum saccharatum (L.) Moench				
TWA					RU	_XXXX	Sorghum saccharatum x s sudanense				
TWA					AR, RU, UA	SRGHM_BIC	Sorghum technicum Batt. & Trab.				
TWA					UA	_XXXX	Sorghum vulgare pers x sorghum sudanense piper stapf				
TWA				forage	AU, US	SPORO_VIR	Sporobolus virginicus (L.) Kunth	beach dropseed, jatopa, seashore dropseed, water couch			
TWA				biofuel	HU	SYLPH_PER	Sylphium perfoliatum l				
TWA		TWO			AU	THEME_TRI	Themeda triandra Forssk.	kangaroo grass, red grass, red-oat, red-oat grass			
TWA					AU	ELTRG_PON	Thinopyrum ponticum				
TWA					RU	TRFOL_APE	Trifolium apertum Bobrov	open clover			
TWA					AU	TRFOL_INC_INC	Trifolium incarnatum L. var. incarnatum				
TWA					HU	TRFOL_REP_REP	Trifolium repens L. var. repens				
TWA					AU	TRFOL_RES_MAJ	Trifolium resupinatum L. var. majus Boiss.				
TWA					AU	TRFOL_SUB_BRA	Trifolium subterraneum L. subsp. brachycalycinum Katzn. & Morley				
TWA					AU	TRFOL_SUB_SUB	Trifolium subterraneum L. subsp. subterraneum				

CHECKING TWP											
TWA	TWF	TWO	TWV	Notes	Using authority	UPOV Code (_XXXX = hybrid; see TWV/38/3)	Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
TWA					AU	TRFOL_SUB_YAN	Trifolium subterraneum L. var. yanninicum (Katzn. & Morley) Zohary				
TWA					US	_XXXX	Tripsacum dactyloides x zea diploperennis				
TWA					AR	_XXXX	Triticale hexaploide x trigopiro octoplo				
TWA					unknown	TRITI_AES_AES	Triticum aestivum L. subsp. aestivum	bread wheat, wheat	blé ordinaire, froment	Saatweizen, weizen	trigo, trigo blando, trigo candeal
TWA					unknown	TRITI_AES_COM	Triticum aestivum L. subsp. compactum (Host) Mackey	club wheat, cluster wheat, dwarf wheat, hedgehog wheat	blé compact, blé ramifié	Ingelweizen, Zwergweizen	trigo cabezorro
TWA					unknown	TRITI_AES_SPH	Triticum aestivum L. subsp. sphaerococcum (Percival) Mackey	Indian dwarf wheat, shot wheat		indischer Kugel-weizen, indischer Zwergweizen	trigo indio
TWA					unknown	???	Triticum aestivum var ferrugeineum				
TWA					unknown	TRITI_AES_AES	Triticum aestivum var. suberythrospermum (Vavilov) Mansf.				
TWA					AR	_XXXX	Triticum aestivum x secale cereale				
TWA					US	TRITI_AES_COM	Triticum compactum Host				
TWA					DE	TRITI_MON	Triticum monococcum L.				
TWA					US	TRITI_TUR_POL	Triticum polonicum L.				
TWA					RU	TRITI_AES_SPH	Triticum sphaerococcum Percival				
TWA					unknown	TRITI_TUR_POL	Triticum turgidum L. subsp. polonicum (L.) Thell.	Polish wheat	blé de Pologne	polnischer Weizen	trigo polaco
TWA					AU	TRITI_TUR_TUR	Triticum turgidum L. subsp. turgidum	cone wheat, poulard wheat, rivet wheat	blé poulard	wilder Emmer	trigo moruno, trigo poulard
TWA					AU	TRITI_DUR	Triticum turgidum ssp turgidum conv durum				
TWA					unknown	_XXXX	Triticum x agropyron				
TWA		TWO			unknown	BRCHR_DIC	Urochloa dictyoneura (Fig. & De Not.) Veldkamp				
TWA		TWO			unknown	VETIV_ODO	Vetiveria odoratissima Lem.-Lisanc				
TWA			TWV		unknown	VICIA_CRA_CRA	Vicia cracca L. subsp. Cracca	bird vetch, boreal vetch, tufted vetch	vesque craque	Vogelwicke	arveja, veza de Pájaro, veza francesa
TWA			TWV		RU	VICIA_CRA_CRA	Vicia grossheimii Ekutim.				
TWA			TWV		DE	???	Vicia sativa conv sativa var platysperma				
TWA		TWO	TWV		unknown	ZEAAA_MAY_MEX	Zea mays L. subsp. mexicana (Schrad.) H. H. Iltis	Durango teosinte, Mexican teosinte, rayana grass	téosinte	Teosinte	maíz silvestre
TWA			TWV		UA	ZEAAA_MAY_EVE	Zea mays L. var. everta (Praecox) Sturt.	popcorn			
TWA		TWO			AU, QZ, US	ZOYSI_MAT	Zoysia matrella (L.) Merr.	Korean grass, Manila grass, siglap grass			hierba Manila

[Annex III(b) follows]

Codes to be checked by the TWA
(using authority order)

CHECKING TWP											
TWA	TWF	TWO	TWV	Notes	Using authority	UPOV Code (_XXXX = hybrid; see TWV/38/3)	Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
TWA					AR	ELYMU_BRE_SCA	Agropyron scabrifolium Doell Parodi				
TWA					AR	BROMU_CAT_RUP	Bromus brevis nees				
TWA					AR	BROMU_PAR	Bromus parodi subv cymosa lank				
TWA					AR	ERAGR_CUR	Eragrostis robusta Stent				
TWA					AR	NEONO_WIG	Glycine wightii grahan ex a rnott ver				
TWA					AR	HORDE_VUL	Hordeum vulgare l convar distichon l				
TWA					AR	HORDE_VUL_VUL	Hordeum vulgare L. subsp. vulgare	Barley	Orge	Gerste, Saatgerste	Cebada
TWA		TWO			AR	PANIC_COL_MAK	Panicum coloratum L. var. makarikariensis Gooss.				
TWA					AR	PASPA_GUE	Paspalum guenoarum Arechav.	wintergreen paspalum			pasto rojo
TWA					AR	PHALR_ANG	Phalaris angusta Nees ex Trin.	timothy canary grass			
TWA					AR	_XXXX	Triticale hexaploide x trigopiro octoplo				
TWA					AR	_XXXX	Triticum aestivum x secale cereale				
TWA					AR, AU, NZ, QM, US,	BROMU_STA	Bromus stamineus E. Desv.	Grazing brome			
TWA					AR, AU, US	PASPA_SCR	Paspalum atratum Swallen				
TWA					AR, NZ, QZ	BROMU_STA	Bromus valdivianus Phil.				
TWA					AR, RU, UA	SRGHM_BIC	Sorghum technicum Batt. & Trab.				
TWA					AR, US	LESPE_CUN	Lespedeza cuneata (Dum. Cours.) G. Don	Chinese bush-clover, Chinese lespedeza, perennial lespedeza, sericea lespedeza, silky bush-clover	lespédéza soyeux	japanischer Klee	lespedeza perenne
TWA					AT, NO, SE	LOLIU_MUL_WES	Lolium multiflorum lam ssp alternativum				
TWA					AT, NO, SE	LOLIU_MUL_ITA	Lolium multiflorum lam ssp non alternativum				
TWA				forage	AU	AESCM_VIL	Aeschynomene villosa Poir.				
TWA					AU	ARACH_PIN	Arachis pintoi Krapov. & W. C. Greg.	Pinto peanut			maní forrajero perenne, maní perenne
TWA					AU	ASTRB_PEC	Astrebla pectinata (Lindl.) F. Muell.	barley Mitchell grass			
TWA					AU	BISER_PEL	Biserrula pelecinus L.				
TWA					AU	BOTHR_BLA	Bothriochloa bladhii (Retz.) S. T. Blake	Australian bluestem, Caucasian bluestem, Forest-bluegrass, Plains bluestem, Purple plume grass			
TWA					AU	CYNOD_DAC_PUL	Cynodon dactylon ssp pulchellus				
TWA					AU	_XXXX	Cynodon tranvaalensis x cynodon dactylon				
TWA				grass	AU	DANTH_LIN	Danthonia linkii				
TWA				fodder	AU	AUSTD_RIC	Danthonia richardsonii Cashmore				
TWA					AU	ERAGR_ELO	Eragrostis elongata				
TWA					AU	GLYCI_LAT	Glycine latifolia (Benth.) C. A. Newell & Hymowitz				

CHECKING TWP											
TWA	TWF	TWO	TWV	Notes	Using authority	UPOV Code (_XXXX = hybrid; see TWV/38/3)	Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
TWA					AU	_XXXX	Lotus maculatus x berthelotii				
TWA				grass	AU	MICLN_STI	Microlaena stipoides (Labill.) R. Br.	weeping grass			
TWA		TWO			AU	PANIC_LAX	Panicum laxum Sw.				
TWA					AU	PASPA_NIC	Paspalum nicorae Parodi	Brunswick grass			
TWA		TWO			AU	PENNI_ALO	Pennisetum alopecuroides (L.) Spreng.	Chinese fountain grass, foxtail fountain grass, swamp foxtail grass, swamp-foxtail			
TWA			TWV		AU	_XXXX	Pisum x vicia				
TWA					AU	POAAA_ENS	Poa ensiformis Vickery				
TWA					AU	POAAA_LAB	Poa labillardieri C. V. Eskdale				
TWA					AU	POAAA_POI	Poa poiformis				
TWA		TWO			AU	THEME_TRI	Themeda triandra Forssk.	kangaroo grass, red grass, red-oat, red-oat grass			
TWA					AU	ELTRG_PON	Thinopyrum ponticum				
TWA					AU	TRFOL_INC_INC	Trifolium incarnatum L. var. incarnatum				
TWA					AU	TRFOL_RES_MAJ	Trifolium resupinatum L. var. majus Boiss.				
TWA					AU	TRFOL_SUB_BRA	Trifolium subterraneum L. subsp. brachycalycinum Katzn. & Morley				
TWA					AU	TRFOL_SUB_SUB	Trifolium subterraneum L. subsp. subterraneum				
TWA					AU	TRFOL_SUB_YAN	Trifolium subterraneum L. var. yanninicum (Katzn. & Morley) Zohary				
TWA					AU	TRITI_TUR_TUR	Triticum turgidum L. subsp. turgidum	cone wheat, poulard wheat, rivet wheat	blé poulard	wilder Emmer	trigo moruno, trigo poulard
TWA					AU	TRITI_DUR	Triticum turgidum ssp turgidum conv durum				
TWA					AU, CA, QZ, US	_XXXX	Poa arachnifera x poa pratensis				
TWA					AU, IT, QM, SI	???	Sorghum bicolor var sudanese				
TWA					AU, NZ	LOTUS_PED	Lotus pedunculatus Cav.	big trefoil			
TWA		TWO			AU, QZ, US	ZOYSI_MAT	Zoysia matrella (L.) Merr.	Korean grass, Manila grass, siglap grass			hierba Manila
TWA					AU, US	BUCHL_DAC	Buchloë dactyloides (Nutt.) Engelm.	Buffalo Grass	Herbe aux bisons	Büffelgras	Hierba búfalo
TWA					AU, US	DGTRA_DID	Digitaria didactyla Willd.	Blue couch, blue couch grass, blue serangoon grass, green serangoon grass, Queensland blue couch			
TWA				forage	AU, US	SPORO_VIR	Sporobolus virginicus (L.) Kunth	beach dropseed, jatopa, seashore dropseed, water couch			
TWA			TWV		BE, BG	PISUM_SAT_SAR	Pisum sativum l var arvense l gams				
TWA					CA	ELYMU_TRA_SUB	Agropyron subsecundum				
TWA			TWV		CZ, SI,	PISUM_SAT	Pisum sativum l convar medullare alef emend c o lehm				
TWA		TWO			DE	AMARA_BLI	Amaranthus blitoides S. Watson	prostrate pigweed			
TWA					DE	DCTLS_GLO_LOB	Dactylis polygama Horv.				
TWA					DE	???	Festuca ovina ssp supina				
TWA					DE	???	Festuca ovina ssp vulgaris				

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TWA					DE	FESTU_VAL_VAL	Festuca ovina var. valesiaca (Schleich. ex Gaudin) Schleich. ex Link				
TWA					DE	ISATI_TIN	Isatis tinctoria L.	dyer's woad, woad	pastel des teinturiers, teinturiére	Färberwaid	hierba pastel
TWA					DE	PHLEU_HIR	Phleum hirsutum Honck.				
TWA					DE	PHLEU_RHA	Phleum rhaeticum (Humphries) Rauschert			Graubündener Lieschgras	
TWA					DE	_XXXX	Secale cereale x secale montanum				
TWA					DE	TRITI_MON	Triticum monococcum L.				
TWA			TWV		DE	???	Vicia sativa conv sativa var platysperma				
TWA					DE, DK, SE	???	Festuca ovina l ssp duriuscula				
TWA					DE, DK, SE	FESTU_LEM	Festuca ovina var. duriuscula auct.				
TWA					DE, DK, SE	FESTU_BRE	Festuca ovina var. duriuscula hort.				
TWA					DE, DK, SI	FESTU_FIL	Festuca ovina subsp. tenuifolia (Sibth.) Celak.				
TWA					DE, IT	FESTU_	Festulolium				
TWA					DK	PUCCI_MAR	Puccinellia maritima (Huds.) Parl.				
TWA					ES	DISTI_SPI	Distichlis spicata L.	Salt Grass	-	-	-
TWA					FR	FESTU_RUB_PRU	Festuca rubra L. subsp. pruinosa (Hack.) Piper				
TWA					FR, NZ, UA, US	???	Festuca rubra l ssp commutata				
TWA					FR, NZ, UA, US	???	Festuca rubra l subsp commutata gaud				
TWA					FR, NZ, UA, US	FESTU_RUB_FAL	Festuca rubra var. commutata Gaudin				
TWA					FR, US	FESTU_RUB_LIT	Festuca rubra L. var. littoralis Vasey				
TWA		TWO			HU	AMARA_CAU	Amaranthus mantegazzianus				
TWA			TWV		HU	PAPAV_BRA	Papaver bracteatum Lindl.	great scarlet poppy, scarlet poppy		Arzneimohn	
TWA					HU	PHALR_ARU	Phalaris arundinacea l dumo				
TWA			TWV		HU	PISUM_SAT	Pisum sativum l convar axiphi				
TWA			TWV		HU	PISUM_SAT	Pisum sativum l convar medull				
TWA					HU	POAAA_PRA_ANG	Poa angustifolia L.				
TWA				biofuel	HU	SYLPH_PER	Sylphium perfoliatum l				
TWA					HU	TRFOL_REP_REP	Trifolium repens L. var. repens				
TWA			TWV		HU, PL,	PISUM_SAT_SSA	Pisum sativum l convar sativum				
TWA			TWV		HU, PL, US	DAUCU_CAR_SAT	Daucus carota L. subsp. sativus (Hoffm.) Arcang. var. sativus Hoffm.	Carrot	Carotte	Möhre, Karotte, Mohrrübe	Zanahoria
TWA			TWV		HU, SK	PISUM_SAT_SSA	Pisum sativum var. speciosum (Alef.) Makasheva				
TWA				fibre	IL	AERVA_JAV	Aerva persica burm f merr				
TWA			TWV		IL, IT, RU, UA, ZA	RICIN_COM	Ricinus communis L.	castor, castor-bean, castor-oil-plant, palmi-christi	ricin	Rizinus	higuerilla
TWA					JP	COIXX_MAY	Coix ma-yuen Roman.	Coix	Coix	Coix	Coix

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TWA	TWF	TWO	TWV	Notes	Using authority	UPOV Code (_XXXX = hybrid; see TWV/38/3)	Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
TWA					JP	COIXX_MAY	Coix ma-yuen Roman.				
TWA	TWF	TWO	TWV		JP	???	Slenopsis axillaris				
TWA					KG, MA	GOSSY_BAR	Gossypium barbadense L.	West Indian Cotton, American Pima Cotton, American-Egyptian Cotton, Brazilian Cotton, Egyptian Cotton, Gallini Cotton, Kidney Cotton, Long-staple Cotton, Peruvian Cotton, Pima Cotton, Sea Island Cotton, Upland Cotton	Cotonnier des Indes occidentales, Cotonnier d'Egypte	Westindische Baumwolle, Sea Island Baumwolle	Algodón de las Indias occidentales, Algodón, Algodonero de las Barbados
TWA				Algae	NL	DCTYS_PUL	Dictyosphaerium pulchellum wood				
TWA			TWV		NL, RU	SOLAN_SIS	Solanum sisymbriifolium Lam.				
TWA			TWV		NO	PISUM_SAT	Pisum sativum l convar axiphium alef				
TWA					NZ	AGROS_CAS	Agrostis castellana Boiss. & Reut.	Highland bent		kastilisches Straußgras	
TWA					NZ	???	Ornithopus intybus l				
TWA					NZ, QZ, US	HLNTS_SAL	Helianthus salicifolius A. Dietr.	willow-leaf sunflower			
TWA					NZ, US, FR	FESTU_RUB_RUB	Festuca rubra L. subsp. rubra	red fescue	Fétuque rouge	Rotschwingel	Cañuela roja
TWA					PL	LINUM_USI_MED	Linum usitatissimum l convar mediterraneum vavilov ex ell kulpa et danert				
TWA					PL	_XXXX	Medicago sativa l falcata x ssp sativa				
TWA					PL	MEDIC_SAT_SAT	Medicago sativa L. subsp. sativa	Lucerne, Alfalfa	Luzerne	Blaue Luzerne, Luzerne	mielga
TWA			TWV		PL	PISUM_SAT	Pisum sativum l ssp sativum convar axiphium alef emend c o lehm				
TWA			TWV		PL	PISUM_SAT	Pisum sativum l ssp sativum convar medullare alef emend c o lehm et convar				
TWA			TWV		PL	PISUM_SAT_S	Pisum sativum L. subsp. sativum				
TWA			TWV		PL	PISUM_SAT_SSA	Pisum sativum L. subsp. sativum var. sativum	garden pea, green pea	petit pois, pois de jardins	Gartenerbse, Speiseerbse	arveja, guisante
TWA					PY	DESMA_VIR	Desmanthus virgatus (L.) Willd.	-	Dwarf koa	-	-
TWA					PY, ZA	DGTRA_ERI	Digitaria eriantha Steud. ssp. eriantha	Smuts Digitaria, Common Finger Grass, Digit Grass, Pangola Grass, Woolly Finger Grass	Digitaria	Pangolagras	Pangola, Pasto Pangola
TWA					PY, ZA	DGTRA_ERI	Digitaria eriantha Steud. ssp. eriantha				
TWA					PY, ZA	DGTRA_MIL	Digitaria milanjiana (Rendle) Stapf	Digit Grass, Milanje Finger Grass, Woolly Finger Grass	-	-	Milanjiana
TWA					PY, ZA	DGTRA_NAT	Digitaria natalensis Stent	Coast Finger Grass	-	-	-
TWA					QM	BROMU_BIE	Bromus biebersteinii Roem. & Schult.	Bieberstein brome, Meadow brome			
TWA					QM	ELYMU_TRA_SUB	Elymus trachycaulus (Link) Gould ex Shinners subsp. subsecundus (Link) Á. Löve & D. Löve	Bearded wheatgrass			

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TWA	TWF	TWO	TWV	Notes	Using authority	UPOV Code (_XXXX = hybrid; see TWV/38/3)	Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
TWA					QM	ELYMU_TRA_TRA	Elymus trachycaulus (Link) Gould ex Shinners subsp. trachycaulus	slender wheatgrass			
TWA					QM	_XXXX	Ornithopus sativus brot x o compressus l				
TWA					QM, RU	PSATH_JUN	Elymus junceus Fisch.				
TWA					QM, UA	SRGHM_ALM	Sorghum ×almum Parodi	almum grass, almum sorghum, Columbus grass	sorgho d'Argentine	Columbusgras	sorgo negro
TWA					QM, US	ELTRG_INT_INT	Elytrigia intermedia (Host) Nevski subsp. intermedia	Intermediate wheatgrass, Pubescent wheatgrass	chiendent intermédiaire	graugrüne Quecke	lastón azul
TWA				fibre	QZ	AERVA_	Aerva Forssk.				
TWA			TWV		QZ	ASTRG_BOE	Astragalus boeticus L.				
TWA					QZ	_XXXX	Secale montanum x secale cereale				
TWA					RO	HORDE_VUL_VUL	Hordeum distichum var nutans				
TWA			TWV		RO	PISUM_SAT	Pisum sativum l ssp sativum convar medulare				
TWA					RU	ELTRG_INT_INT	Agropyron glaucum (Desf.) Roem. & Schult.				
TWA					RU	AGROP_CRI_PEC	Agropyron pectiniforme Roem. & Schult.				
TWA					RU	ALOPE_ARU	Alopecurus ventricosus Pers				
TWA			TWV		RU	ASTRG_ULI	Astragalus uliginosus L.				
TWA			TWV		RU	BRASS_RAP_NI	Brassica japonica sieb				
TWA			TWV		RU	BRASS_OLE_GEM	Brassica subspontanea lizg				
TWA					RU	ELYMU_DAH	Clinelymus dahuricus nevski				
TWA					RU	ELYMU_SIB	Clinelymus sibiricus nevski				
TWA					RU	ELYMU_DAH	Elymus dahuricus Turcz. ex Griseb.				
TWA					RU	KRASC_CER	Eurotia ceratoides (L.) C. A. Mey.				
TWA					RU	FESTU_ARU_ORI	Festuca orientalis (Hack.) Krecz. & Bobrov				
TWA					RU	FESTU_PSE	Festuca pseudodalmatica Krajina ex Domin				
TWA					RU	HERAC_SOS	Heracleum sosnowskyi Manden.				
TWA		TWO			RU	LATHY_CHL	Lathyrus chloranthus Boiss.				
TWA		TWO			RU	LATHY_SAT	Lathyrus sativus l var rubra				
TWA		TWO			RU	LATHY_SYL	Lathyrus sylvestris L.	flat peavine, flat-pea, narrow-leaf everlasting-pea	gesse sauvage	Waldplatterbse	cicércula silvestre, guija silvestre
TWA					RU	LESPE_	Lespedeza Michx.				
TWA					RU	LINUM_USI	Linum usitatissimum l f elongata				
TWA					RU	LINUM_USI	Linum usitatissimum l var intermedia vav et ell				
TWA					RU	MEDIC_SAT_VAR	Medicago sativa L. nothosubsp. varia (Martyn) Arcang.	bastard medic, sand lucerne, variegated lucerne	luzerne bigarrée, luzerne intermédiaire	Bastardluzerne, Sandluzerne	alfalfa de las arenas, alfalfa híbrida
TWA					RU	MELIL_SUA	Melilotus suaveolens Ledeb.	Daghestan sweet-clover			
TWA					RU	ELYMU_TRA_TRA	Roegneria trachycaula (Link) Nevski				
TWA				forage	RU	SALSO_ORI	Salsola orientalis S. G. Gmel.				
TWA					RU	SETAR_ITA_ITA	Setaria italica subsp. maxima (Alef.) Dekapr. & Kasparian				
TWA					RU	_XXXX	Sorghum saccharatum x s sudanense				
TWA					RU	TRFOL_APE	Trifolium apertum Bobrov	open clover			
TWA					RU	TRITI_AES_SPH	Triticum sphaerococcum Percival				
TWA			TWV		RU	VICIA_CRA_CRA	Vicia grossheimii Ekutim.				
TWA					RU, UA	_XXXX	Helianthus tuberosus l x helianthus annuus l				
TWA					RU, UA	SETAR_ITA_ITA	Setaria italica var. moharia Alef. ex Hegi				
TWA					RU, UA	SRGHM_BIC	Sorghum saccharatum (L.) Moench				

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TWA					SI	FESTU_RUB_FAL	Festuca rubra L. subsp. fallax (Thuill.) Nyman	Chewing's fescue			
TWA					SI	FESTU_RUB_RUB	Festuca rubra subsp. vulgaris (Gaudin) Hayek				
TWA					SI	HORDE_VUL	Hordeum vulgare l ssp polystichum hall schinz et kell				
TWA		TWO			UA	AMARA_CAU	Amaranthus mantegazzianus Pass				
TWA			TWV		UA	BRASS_OLE_BOT	Brassica cauliflora lizg				
TWA					UA	FESTU_BRE	Festuca trachyphylla hack krajina				
TWA					UA	LINUM_AUS	Linum austriacum L.			österreichischer Lein	
TWA					UA	LINUM_USI	Linum humile Mill.				
TWA					UA	LINUM_USI	Linum usitatissimum l s stricta				
TWA			TWV		UA	PISUM_SAT_SAR	Pisum arvense L.				
TWA					UA	???	Sorghum orysoidum				
TWA					UA	_XXXX	Sorghum vulgare pers x sorghum sudanense piper stapf				
TWA			TWV		UA	ZEAAA_MAY_EVE	Zea mays L. var. everta (Praecox) Sturt.	popcorn			
TWA				fibre	US	AERVA_JAV	Aerva javanica (Burm. f.) Juss. ex Schult.	Kapokbush			
TWA				forage	US	ALOPE_ARU	Alopecurus arundinaceus Poir.	Creeping foxtail, Creeping meadow foxtail			
TWA					US	ARCTA_LAT	Arctagrostis latifolia (R. Br.) Griseb.	Arctic grass, Polar grass, Russian grass			
TWA					US	BACHL_DAC	Bachloe dactyloides				
TWA					US	BROMU_SUB	Bromus subvelutinus Shear	Hoary brome, Short brome			
TWA					US	CYNOD_DAC_DAC	Cynodon dactylon (L.) Pers. var. dactylon	Bahama grass, Bermuda grass, devil's grass, hariali grass, quick grass	cynodon dactyle, grand chiendent	Bermudagras, Hundszahngras	grama rastrera, zacate de Bermuda
TWA					US	DGTRA_FLO	Digitaria floridana Hitchc.	Florida crabgrass, turf grass			
TWA					US	ELYMU_LAN_LAN	Elymus lanceolatus (Scribn. & J. G. Sm.) Gould subsp. lanceolatus	Streambank wheatgrass, thick-spike wheatgrass			
TWA					US	EREMO_OPH	Eremochloa ophiuroides (Munro) Hack.	centipede grass, lazy-man's grass			
TWA					US	FESTU_BRE	Festuca brevipila R. Tracey	hard fescue			
TWA					US	FESTU_IDA	Festuca idahoensis Elmer				
TWA					US	FESTU_OVI	Festuca ovina l var ovina				
TWA					US	FESTU_GLA	Festuca ovina var. glauca (Vill.) W. D. J. Koch				
TWA					US	GLYCR_ISC	Glyceria ischyroneura Steud.				
TWA		TWO			US	_XXXX	Lathyrus tingitanus l x lathyrus sativus l				
TWA					US	LOTUS_BER	Lotus berthelotii Lowe ex Masf.	coralgem, parrot's-beak, pelican's-beak, winged-pea			
TWA					US	_XXXX	Lotus berthelotii times lotus maculata				
TWA					US	LOTUS_COR_CCO	Lotus corniculatus L. subsp. corniculatus var. corniculatus				
TWA		TWO			US	PENNI_FLA	Pennisetum flaccidum Griseb.	flaccid grass, Himalayan fountain grass			
TWA					US	POAAA_GLA	Poa glauca Vahl	glaucantha bluegrass, glaucous bluegrass, glaucous meadow grass, upland bluegrass		blaugrünes Rispengras	
TWA		TWO		forage, bee	US	PROSO_GLA	Prosopis glandulosa Torr.	honey mesquite, mesquite			

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TWA					US	PUCCI_DIS	Puccinellia distans (Jacq.) Parl.	European alkali grass, reflexed salt grass, slender alkali grass, weeping alkali grass		gemeiner Salzschwaden	
TWA			TWV	food, fuel	US	SALIC_BIG	Salicornia bigelovii Torr.	dwarf glasswort			
TWA					US	SRGHM_SUD	Sorghum ×drummondii (Steud.) Millsp. & Chase	chicken-corn, shattercane, sordan, sorghum-sudangrass, Sudan grass	sorgho du Soudan, sorgho menu	Sudangras	pasto Sudán
TWA					US	_XXXX	Tripsacum dactyloides x zea diploperennis				
TWA					US	TRITI_AES_COM	Triticum compactum Host				
TWA					US	TRITI_TUR_POL	Triticum polonicum L.				
TWA					UY	LOTUS_SUB	Lotus subbiflorus ssp subbiflorus				
TWA					ZA	ANTEP_	Antephora pubescens				
TWA					ZA	ANTHP_PUB	Anthephora pubescens Nees	Bottle Brush Grass	-	-	-
TWA					ZA	ANTHP_PUB	Anthephora pubescens Nees	Bottle Brush Grass	-	-	-
TWA					ZA	MEDIC_POL_BRE	Medicago polymorpha L. var. brevispina (Benth.) Heyn				
TWA					ZA	MEDIC_MUR	Medicago sphaerocarpos Bertol. (M. murex Willd.)	Sphere Medick	-	-	-
TWA					unknown	AGROP_CRI_PEC	Agropyron cristatum (L.) Gaertn. subsp. pectinatum (M. Bieb.) Tzvelev var. pectinatum (M. Bieb) Tzvelev				
TWA					unknown	AUSTD_RIC	Austrodanthonia richardsonii (Cashmore) H. P. Linder				
TWA			TWV		unknown	BRASS_OLE_COS	Brassica oleracea L. var. costata DC.	Bedford cabbage, braganza, Portugese cole, seakale cabbage, tronchuda cabbage, tronchuda kale		portugiesischer Kohl, Tronchudakohl	
TWA			TWV		unknown	BRASS_OLE_A4	Brassica oleracea L. var. ramosa DC.	catjang, catjang cowpea, sow-pea	dolique mongette	Catjangbohne	judía catjang
TWA			TWV		unknown	BRASS_RAP_NI	Brassica rapa L. subsp. nipposinica (L. H. Bailey) Hanelt				
TWA					unknown	BROMU_CAT_RUP	Bromus catharticus Vahl var. rupestris (Speg.) Planchuelo & P. M. Peterson				cebadillo pampeana
TWA					unknown	CYNOD_TRA	Cynodon transvaalensis Burtt Davy	African Bermuda grass, African dog's tooth grass, Florida grass, Transvaal quick			
TWA					unknown	DCTLS_GLO_LOB	Dactylis glomerata L. subsp. lobata (Drejer) H. Lindb.				
TWA					unknown	DGTRA_SWA	Digitaria swazilandensis Stent				
TWA					unknown	ELYMU_BRE_SCA	Elymus breviaristatus (Hitchc.) Á. Löve subsp. scabrifolius (Döll) Á. Löve				
TWA					unknown	ELYMU_SIB	Elymus sibiricus L.	Wild rye			
TWA					unknown	ELTRG_PON	Elytrigia pontica (Podp.) Holub				
TWA					unknown	FESTU_ARU_ARU	Festuca arundinacea Schreb. subsp. Arundinacea				
TWA					unknown	FESTU_ARU_ORI	Festuca arundinacea Schreb. subsp. orientalis (Hack.) Tzvelev				
TWA					unknown	FESTU_GLA	Festuca glauca Vill.	blue fescue, gray fescue			
TWA					unknown	FESTU_LEM	Festuca lemanii T. Bastard				

CHECKING TWP											
TWA	TWF	TWO	TWV	Notes	Using authority	UPOV Code (_XXXX = hybrid; see TWV/38/3)	Botanical name	Common Name	Nom commun	Landesüblicher Name	Nombre común
TWA					unknown	FESTU_VAL_VAL	Festuca valesiaca Schleich. ex Gaudin subsp. valesiaca				
TWA					unknown	ALYSI_VAG	Hedysarum vaginale L. [Alysicarpus vaginalis (L.) DC.]	Alyce Clover, One-leaved Clover, Buffalo-clover	Alysicarpus	-	maní camarrón
TWA					unknown	HORDE_VUL	Hordeum distichum jessen				
TWA					unknown	HORDE_VUL_VUL	Hordeum sativum Jess.				
TWA					unknown	KRASC_CER	Kraschenninnikovia ceratoides (L.) Gueldenst.	Pamirian winterfat			
TWA					unknown	LOTUS_MAC	Lotus maculatus Breitf.				
TWA					unknown	MEDIC_DOL	Medicago doliata Carmign.				
TWA					unknown	MEDIC_MUR	Medicago murex Willd.				
TWA					unknown	???	Nicotiana virjinium l				
TWA			TWV		unknown	PISUM_SAT_SAR	Pisum sativum L. subsp. sativum var. arvense (L.) Poir.	Austrian winter pea, field pea	pois de champs, pois fourrager	Felderbse, Futtererbse	guisante de campo
TWA					unknown	POAAA_PRA_ANG	Poa pratensis L. subsp. angustifolia (L.) Dumort.	narrow-leaf meadow grass		schmalblättriges Rispengras	
TWA					unknown	SETAR_ITA_ITA	Setaria italica (L.) P. Beauv. subsp. italica	foxtail bristle grass, foxtail millet, German millet, Hungarian millet, Italian millet	millet d'Italie, millet des oiseaux, petit mil, sétaire-d'Italie	Kolbenhirse	mijo de Italia, mijo menor, moha, panizo
TWA	TWF		TWV		unknown	CYPHO_BET	Solanum betaceum Cav.	tree-tomato	arbre à tomates, tomate de La Paz, tomate en arbre	Baumtomate	tamarillo, tomate de árbol, tomate serrano
TWA			TWV		unknown	SOLAN_TUB_TUB	Solanum tuberosum L. subsp. tuberosum	Irish potato, potato, white potato	Pomme de terre	Kartoffel	Papa, Patata
TWA					unknown	TRITI_AES_AES	Triticum aestivum L. subsp. aestivum	bread wheat, wheat	blé ordinaire, froment	Saatweizen, weizen	trigo, trigo blando, trigo candeal
TWA					unknown	TRITI_AES_COM	Triticum aestivum L. subsp. compactum (Host) Mackey	club wheat, cluster wheat, dwarf wheat, hedgehog wheat	blé compact, blé ramifié	Ingelweizen, Zwergweizen	trigo cabezorro
TWA					unknown	TRITI_AES_SPH	Triticum aestivum L. subsp. sphaerococcum (Percival) Mackey	Indian dwarf wheat, shot wheat		indischer Kugelweizen, indischer Zwergweizen	trigo indio
TWA					unknown	???	Triticum aestivum var ferrugeineum				
TWA					unknown	TRITI_AES_AES	Triticum aestivum var. suberythrospermum (Vavilov) Mansf.				
TWA					unknown	TRITI_TUR_POL	Triticum turgidum L. subsp. polonicum (L.) Thell.	Polish wheat	blé de Pologne	polnischer Weizen	trigo polaco
TWA					unknown	_XXXX	Triticum x agropyron				
TWA		TWO			unknown	VETIV_ODO	Vetiveria odoratissima Lem.-Lisanc				
TWA			TWV		unknown	VICIA_CRA_CRA	Vicia cracca L. subsp. Cracca	bird vetch, boreal vetch, tufted vetch	vesque craque	Vogelwicke	arveja, veza de Pájaro, veza francesa
TWA		TWO	TWV		unknown	ZEAAA_MAY_MEX	Zea mays L. subsp. mexicana (Schrad.) H. H. Iltis	Durango teosinte, Mexican teosinte, rayana grass	téosinte	Teosinte	maíz silvestre
TWA		TWO			unknown	BRCHR_DIC	Brachiaria dictyoneura (Fig. & De Not.) Stapf				
TWA		TWO			unknown	BRCHR_DIC	Urochloa dictyoneura (Fig. & De Not.) Veldkamp				

[End of Annex III(b) and of document]