

Technical Committee

TC/57/11.

Fifty-Seventh Session
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UPOV INFORMATION DATABASES

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EXECUTIVE SUMMARY

1. The purpose of this document is to report on developments concerning the UPOV code system and to present a proposal to amend the UPOV code system to provide information on variety types, groups and denomination class.

2. The TC is invited to:

(a) note that the TWPs, at their sessions in 2021, agreed with the proposal for amending the UPOV code system, as set out in document UPOV/INF/23/1 Draft 2;

(b) note that matters concerning the draft revised “Guide to the UPOV code system” (document UPOV/INF/23) are presented in document TC/57/4 “Guidance and information materials – Matters for adoption by the Council in 2021”;

(c) note that the proposals for amending UPOV codes presented in this document are made on the basis that they would be made in conjunction with the adoption of document UPOV/INF/23/1;

(d) note that members of the Union and contributors of data to the PLUTO database will be informed of the changes to UPOV codes and the date of the changes by means of a circular in advance.

(e) consider the proposal to amend the UPOV codes for *Beta vulgaris* L. subsp. *vulgaris*, as reproduced in Annex I to this document;

(f) consider appending information to the UPOV code for *Beta vulgaris* L. subsp. *vulgaris* to establish the following groups:

- (i) Fodder beet group: Class 2.1 (“21FB”),
- (ii) Sugar beet group: Class 2.1 (“21SB”),
- (iii) Beetroot group: Class 2.2 (“22BR”),
- (iv) Leaf beet group: Class 2.2 (“22LB”).

(g) consider amending the botanical names for *Brassica oleracea* in accordance with GRIN, with the consequent changes to the UPOV codes in relation to groups, as provided in the Appendix to Annex II of this document;

(h) consider appending information to the UPOV code for *Brassica oleracea* L. var. *capitata* L. (BRASS_OLE_GC) to create variety groups or types for White and Red Cabbage, as follows:

- (i) White Cabbage: 1W (e.g. BRASS_OLE_GC_1W)
- (ii) Red Cabbage: 2R (e.g. BRASS_OLE_GC_2R)

(i) consider appending information to UPOV code CITRU_AUM to create groups “1MA” for mandarins; and “2OR” for oranges;

(j) consider amending the UPOV code CITRU_AUM, following the reclassification of *Citrus clementina* hort. ex Tanaka (UPOV code: CITRU_CLE) as a synonym of *Citrus aurantium* L. (UPOV code: CITRU_AUM), as set out in Annex III to this document;

(k) note that the proposal from the TWF for partial revision of the Test Guidelines for *Citrus* to move obsolete species from the “principle botanical names” box to the “alternative botanical names” box will be considered in document TC/57/2 “Test Guidelines”;

(l) consider the proposal to delete the UPOV Codes ZEAAA_MAY_SAC, ZEAAA_MAY_EVE and ZEAAA_MAY_MIC, that would be covered by the UPOV code ZEAAA_MAY_MAY;

(m) consider appending information on variety types or groups to the UPOV code ZEAAA_MAY_MAY to establish the following variety types or groups:

- (i) Corn; Maize: “1MA”,
- (ii) Sweet Corn: “2SW”,
- (iii) Popcorn: “3PO”.

(n) consider the proposal to delete the UPOV Code ALOEE_ARI, as set out in paragraph 37 of this document; and

(o) consider the proposal to delete the UPOV Code DICEN_SPE, as set out in paragraph 41 of this document.

3. The structure of this document is as follows:

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4. The following abbreviations are used in this document:

CAJ:	Administrative and Legal Committee
GRIN:	Germplasm Resources Information Network
TC:	Technical Committee
TWA:	Technical Working Party for Agricultural Crops
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
TWP(s):	Technical Working Party(ies)
TWV:	Technical Working Party for Vegetables

AMENDING THE UPOV CODE SYSTEM TO PROVIDE INFORMATION ON VARIETY GROUPS OR TYPES

Background

5. The TC, at its fifty-sixth session¹, agreed to request the Office of the Union to prepare a draft revised “Guide to the UPOV code system” on the basis of the proposal set out in document TC/56/8, paragraphs 15 to 26, for consideration by the TC and CAJ, at their sessions in 2021 and, subject to agreement by CAJ, present the draft revised “Guide to the UPOV code system” (document UPOV/INF/23) for adoption by the Council in 2021 (see document TC/56/22 “Outcome of consideration of documents by correspondence”, paragraphs 50 to 53).

6. The TC agreed to request the Office of the Union to invite comments by the TWPs at their sessions in 2021 on the draft revised “Guide to the UPOV code system” (document UPOV/INF/23) on the basis of the proposal presented in document TC/56/10, to assist the TC in its consideration of the draft.

Consideration by the Technical Working Parties

7. At their sessions in 2021, the TWV², TWO³, TWA⁴ and TWF⁵ agreed with the proposal for amending the UPOV code system to provide information on variety types, groups and denomination class, as set out in document UPOV/INF/23/1 Draft 2 (see documents TWV/55/16 “Report”, paragraph 73; TWO/53/10 “Report”, paragraph 36; TWA/50/9 “Report”, paragraph 48; and TWF/52/10 “Report”, paragraph 47).

8. Matters concerning the draft revised “Guide to the UPOV code system” (document UPOV/INF/23) are presented in document TC/57/4 “Guidance and information materials – Matters for adoption by the Council in 2021”.

9. *The TC is invited to note that:*

(a) the TWPs, at their sessions in 2021, agreed with the proposal for amending the UPOV code system, as set out in document UPOV/INF/23/1 Draft 2; and

(b) matters concerning the draft revised “Guide to the UPOV code system” (document UPOV/INF/23) are presented in document TC/57/4 “Guidance and information materials – Matters for adoption by the Council in 2021”.

PROPOSALS FOR AMENDING UPOV CODES

10. The TC, at its fifty-sixth session, agreed to request the Office of the Union to present proposals to address the taxonomical reclassification of *Beta vulgaris* ssp. *vulgaris*, *Brassica oleracea*, *Citrus* and *Zea mays*, in conjunction with a proposal to revise the “Guide to the UPOV code system” (document UPOV/INF/23) for consideration by the TWPs and the TC at their sessions in 2021 (see document TC/56/22 “Outcome of consideration of documents by correspondence”, paragraph 53).

11. The following proposals are made on the basis that the changes to the UPOV codes would be made in conjunction with the adoption of document UPOV/INF/23/1.

¹ Held via electronic means on October 26 and 27, 2020.

² at its fifty-fifth session, hosted by Turkey and held via electronic means, from May 3 to 7, 2021

³ at its fifty-third session, hosted by the Netherlands and held via electronic means, from June 7 to 11, 2021

⁴ at its fiftieth session, hosted by the United Republic of Tanzania and held via electronic means, from June 21 to 25, 2021

⁵ at its fifty-second session, hosted by China and held via electronic means, from July 12 to 16, 2021

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

13. *The TC is invited to note:*

(a) *that the proposals for amending UPOV codes presented in this document are made on the basis that they would be made in conjunction with the adoption of document UPOV/INF/23/1; and*

(b) *that members of the Union and contributors of data to the PLUTO database will be informed of the changes to UPOV codes and the date of the changes by means of a circular in advance.*

UPOV codes for *Beta vulgaris*

14. Annex I to this document provides the number of entries in the PLUTO database for *Beta vulgaris* L. subsp. *vulgaris* and its synonyms, as currently provided in the GENIE database. A proposal for updating UPOV codes in line with the taxa in GRIN is provided in Annex I to this document. All previously recognized taxonomical ranks lower than subspecies are added as synonyms to *Beta vulgaris* L. subsp. *vulgaris*.

15. The TWV, at its fifty-fifth session, and TWA, at its fiftieth session, agreed with the proposal to amend the UPOV codes for *Beta vulgaris*, as reproduced in Annex I to this document (see documents TWV/55/16 "Report", paragraphs 76 and 77; and TWA/50/9 "Report", paragraphs 52 and 53).

16. The TWV and TWA agreed to append information on denomination classes to the UPOV codes for *Beta vulgaris* subsp. *vulgaris* to establish the following groups:

- (i) Fodder beet group: Class 2.1 ("21FB"),
- (ii) Sugar beet group: Class 2.1 ("21SB"),
- (iii) Beetroot group: Class 2.2 ("22BR"),
- (iv) Leaf beet group: Class 2.2 ("22LB").

17. The following table provides a summary of the denomination classes proposed by the TWV and TWA:

	<u>Botanical names</u>	<u>UPOV codes</u>
Class 2.1	<i>B. vulgaris</i> L. ssp. <i>vulgaris</i> (synonym to <i>B. vulgaris</i> L. var. <i>alba</i> DC.), <i>B. vulgaris</i> L. ssp. <i>vulgaris</i> (synonym to <i>B. vulgaris</i> L. var. <i>altissima</i>)	BETAA_VUL_VUL_21FB; BETAA_VUL_VUL_21SB
Class 2.2	<i>Beta vulgaris</i> ssp. <i>vulgaris</i> var. <i>conditiva</i> Alef. (synonym to <i>B. vulgaris</i> L. var. <i>rubra</i> L.), <i>B. vulgaris</i> L. var. <i>cicla</i> L., <i>B. vulgaris</i> L. ssp. <i>vulgaris</i> var. <i>vulgaris</i>	BETAA_VUL_VUL_22BR; BETAA_VUL_VUL_22LB
Class 2.3	<i>Beta</i> other than classes 2.1 and 2.2.	other than classes 2.1 and 2.2

18. *The TC is invited to consider:*

(a) *the proposal to amend the UPOV codes for *Beta vulgaris* L. subsp. *vulgaris*, as reproduced in Annex I to this document; and*

(b) *appending information to UPOV codes for *Beta vulgaris* L. subsp. *vulgaris* to establish the following groups:*

- (i) Fodder beet group: Class 2.1 (“21FB”),
- (ii) Sugar beet group: Class 2.1 (“21SB”),
- (iii) Beetroot group: Class 2.2 (“22BR”),
- (iv) Leaf beet group: Class 2.2 (“22LB”).

UPOV codes for *Brassica oleracea*

19. Annex II to this document provides the current entries in the GENIE database for *Brassica oleracea* (except hybrids), the taxa in GRIN and the number of entries in the PLUTO database.

20. The TWV, at its fifty-fifth session, agreed to amend the botanical names for *Brassica oleracea* in accordance with GRIN, as provided in the Appendix to Annex II of this document (see document TWV/55/16 “Report”, paragraphs 78 to 80).

21. The TWV agreed to append information to the UPOV code for *Brassica oleracea* L. var. *capitata* L. (BRASS_OLE_GC) to create variety groups or types for White and Red Cabbage, as follows:

- White Cabbage: 1W (e.g. BRASS_OLE_GC_1W)
- Red Cabbage: 2R (e.g. BRASS_OLE_GC_2R)

22. The TWV considered the proposal from the Netherlands to replace mentions to the botanical nomenclature of *Brassica oleracea* by the respective group type. For example, reference would be made to *Brassica oleracea* Curly kale Group instead of *B. oleracea* L. var. *sabellica* (synonym of *B. oleracea* L. convar. *acephala* (DC.) Alef. var. *sabellica* L.). The TWV agreed to invite the Netherlands to make a presentation at its fifty-sixth session to consider the proposal further.

23. *The TC is invited to consider:*

(a) *amending the botanical names for Brassica oleracea in accordance with GRIN, with the consequent changes to the UPOV codes in relation to groups, as provided in the Appendix to Annex II of this document; and*

(b) *appending information to the UPOV code for Brassica oleracea L. var. capitata L. (BRASS_OLE_GC) to create variety groups or types for White and Red Cabbage, as follows:*

- (i) *White Cabbage: 1W (e.g. BRASS_OLE_GC_1W)*
- (ii) *Red Cabbage: 2R (e.g. BRASS_OLE_GC_2R)*

UPOV codes for *Citrus*

24. Annex III to this document presents a proposal for updating UPOV codes in line with the taxa in GRIN.

25. The TWF, at its fifty-first session, considered amending the UPOV codes for *Citrus*, as reproduced in Annex III to this document. The TWF agreed that the reclassification of *Citrus clementina* hort. ex Tanaka (UPOV code: CITRU_CLE) as a synonym of *Citrus aurantium* L. (UPOV code: CITRU_AUM) should not be implemented before solutions to enable UPOV codes to provide information on variety groups were provided. The TWF noted that the remaining proposals had no practical impact due to the absence of varieties reported in the PLUTO database and agreed to the proposed changes (see document TWF/51/10 “Report”, paragraph 51).

26. The TWF, at its fifty-second session, agreed to append the following information to UPOV code CITRU_AUM to create groups mandarins (1MA); and oranges (1OR), as follows (see document TWF/52/10 “Report”, paragraphs 50 to 52):

- (a) Mandarins group: “1MA” (e.g. CITRU_AUM_1MA); and
- (b) Oranges group: “1OR” (e.g. CITRU_AUM_1OR)

27. The TWF agreed to amend the UPOV code CITRU_AUM, following the reclassification of *Citrus clementina* hort. ex Tanaka (UPOV code: CITRU_CLE) as a synonym of *Citrus aurantium* L. (UPOV code: CITRU_AUM), as set out in the Annex III to this document.

28. The TWF agreed to propose the partial revision of the Test Guidelines for *Citrus* to move relevant botanical names from the “principle botanical names” box to the “alternative botanical names” box. Matters concerning partial revisions of Test Guidelines are presented in document TC/57/2 “Test Guidelines”.

29. The TC is invited to:

(a) consider appending information to UPOV code CITRU_AUM to create groups “1MA” for mandarins; and “2OR” for oranges;

(b) consider amending the UPOV code CITRU_AUM, following the reclassification of *Citrus clementina* hort. ex Tanaka (UPOV code: CITRU_CLE) as a synonym of *Citrus aurantium* L. (UPOV code: CITRU_AUM), as set out in Annex III to this document; and

(c) note that the proposal from the TWF for partial revision of the Test Guidelines for *Citrus* to move obsolete species from the “principle botanical names” box to the “alternative botanical names” box will be considered in document TC/57/2 “Test Guidelines”.

UPOV codes “ZEAAA_MAY_SAC”, “ZEAAA_MAY_EVE” and “ZEAAA_MAY_MIC”

30. The TWV, at its fifty-fifth session, and the TWA, at its fiftieth session, agreed with the proposal to delete the UPOV Codes ZEAAA_MAY_SAC, ZEAAA_MAY_EVE and ZEAAA_MAY_MIC, that would be covered by the UPOV code ZEAAA_MAY_MAY, as follows (see documents TWV/55/16 “Report”, paragraphs 81 to 83; and TWA/50/9 “Report”, paragraphs 54 to 56):

Current			Proposal		
UPOV code	Principal botanical name	Other botanical name(s)	UPOV code	Principal botanical name	Other botanical name(s)
ZEAAA_MAY_SAC	<i>Zea mays</i> L. <i>saccharata</i> Koern.	n.a.	[to delete]	n.a.	n.a.
ZEAAA_MAY_EVE	<i>Zea mays</i> L. var. <i>everta</i> (Praecox) Sturt.	n.a.	[to delete]	n.a.	n.a.
ZEAAA_MAY_MIC	<i>Zea mays</i> L. convar. <i>microsperma</i> Koern.	n.a.	[to delete]	n.a.	n.a.
ZEAAA_MAY_MAY	<i>Zea mays</i> L. subsp. <i>mays</i>	<i>Zea mays</i> var. <i>ceratina</i> L.; <i>Zea mays</i> var. <i>indentata</i> (Sturtev.) L. H. Bailey; <i>Zea mays</i> var. <i>indurata</i> (Sturtev.) L. H. Bailey; <i>Zea mays</i> var. <i>saccharata</i> (Sturtev.) L. H. Bailey	ZEAAA_MAY_MAY	<i>Zea mays</i> L. subsp. <i>mays</i>	<i>Zea mays</i> var. <i>ceratina</i> L.; <i>Zea mays</i> var. <i>indentata</i> (Sturtev.) L. H. Bailey; <i>Zea mays</i> var. <i>indurata</i> (Sturtev.) L. H. Bailey; <i>Zea mays</i> var. <i>saccharata</i> (Sturtev.) L. H. Bailey; <i>Zea mays</i> L. <i>saccharata</i> Koern.; <i>Zea mays</i> L. var. <i>everta</i> (Praecox) Sturt.; <i>Zea mays</i> L. convar. <i>microsperma</i> Koern.

31. The TWV and TWA agreed that the UPOV code for Durango teosinte should not be changed and should remain as ZEAAA_MAY_MEX.

32. The TWV and TWA agreed to append information on variety types or groups to the UPOV code ZEAAA_MAY_MAY to establish the following variety types or groups:

- (a) Corn; Maize: "1MA" (e.g. ZEAAA_MAY_MAY_1MA);
- (b) Sweet Corn: "2SW" (e.g. ZEAAA_MAY_MAY_2SW);
- (c) Popcorn: "3PO" (e.g. ZEAAA_MAY_MAY_3PO).

33. The TC is invited to consider:

(a) the proposal to delete the UPOV Codes ZEAAA_MAY_SAC, ZEAAA_MAY_EVE and ZEAAA_MAY_MIC, that would be covered by the UPOV code ZEAAA_MAY_MAY; and

(b) appending information on variety types or groups to the UPOV code ZEAAA_MAY_MAY to establish the following variety types or groups:

- (i) Corn; Maize: "1MA",
- (ii) Sweet Corn: "2SW",
- (iii) Popcorn: "3PO".

ADDITIONAL PROPOSALS FOR AMENDING UPOV CODES CONSIDERED BY THE TWPS IN 2021

34. The following sections present proposals for amendments to UPOV codes considered by the TWPs at their session in 2021.

UPOV code for *Aloe aristata*

35. The Office of the Union was informed of the reclassification of certain *Aloe* subspecies as species under the genus *Aristaloe*.

36. The current entries in the GENIE database for the *Aloe* subspecies concerned, the taxa in GRIN and the numbers of entries in the PLUTO database, are as follows:

UPOV code	Principal botanical name in GENIE	Botanical name(s) in GRIN	Common name(s) in GENIE	Number of entries in PLUTO
ALOEE_ARI	<i>Aloe aristata</i> Haw.	<i>Aristaloe aristata</i> (Haw.) Boatwr. & J. C. Manning	Lace aloe; Torch plant	14

37. The TWO, at its fifty-third session, agreed to delete the UPOV Code ALOEE_ARI, as indicated below. The species *Aloe aristata* would be covered as a synonym of *Aristaloe aristata* under a new UPOV code ARSTL_ARI, which the office of the union would create (see document TWO/53/10 "Report", paragraph 44).

Current			Proposal		
UPOV code	Principal botanical name	Other botanical name(s)	UPOV code	Principal botanical name	Other botanical name(s)
ALOEE_ARI	<i>Aloe aristata</i> Haw.	<i>Aristaloe aristata</i> (Haw.) Boatwr. & J. C. Manning	ARSTL_ARI	<i>Aristaloe aristata</i> (Haw.) Boatwr. & J. C. Manning	<i>Aloe aristata</i> Haw.

38. The TC is invited to consider the proposal to delete the UPOV Code ALOEE_ARI, as set out in paragraph 37 of this document.

UPOV code for *Dicentra* species

39. The Office of the Union was informed of the reclassification of certain *Dicentra* species to *Lamprocapnos*.

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

UPOV code	Principal botanical name in GENIE	Botanical name(s) in GRIN	Common name(s) in GENIE	Number of entries in PLUTO
DICEN_SPE	<i>Dicentra spectabilis</i> (L.) Lem.	<i>Lamprocapnos spectabilis</i> (L.) Fukuhara	Asian bleeding-heart; Bleeding-heart	12

41. The TWO, at its fifty-third session, agreed to delete the UPOV Code DICEN_SPE, as presented in the table below. *Dicentra spectabilis* would be covered as a synonym of *Lamprocapnos spectabilis* under a new UPOV code LAMPO_SPE, which the office of the union would create (see document TWO/53/10 "Report", paragraph 43).

Current			Proposal		
UPOV code	Principal botanical name	Other botanical name(s)	UPOV code	Principal botanical name	Other botanical name(s)
DICEN_SPE	<i>Dicentra spectabilis</i> (L.) Lem.	<i>Lamprocapnos spectabilis</i> (L.) Fukuhara	LAMPO_SPE	<i>Lamprocapnos spectabilis</i> (L.) Fukuhara	<i>Dicentra spectabilis</i> (L.) Lem.

42. The TC is invited to consider the proposal to delete the UPOV Code DICEN_SPE, as set out in paragraph 41 of this document.

[Annexes follow]

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ANNEX I

PROPOSALS TO AMEND THE UPOV CODE FOR *BETA VULGARIS* SUBSP. *VULGARIS*
Current situation and proposed UPOV code amendments

Current					Proposal		
Entries in PLUTO	TG	UPOV Code	Principal botanical name	Other botanical name(s)	UPOV Code	Principal botanical name	Other botanical name(s)
5	/	BETAA_VUL_GV	Beta vulgaris L. subsp. vulgaris	n.a.	BETAA_VUL_VUL	Beta vulgaris L. subsp. vulgaris	Beta altissima Steud.; Beta brasiliensis hort. ex Voss, nom. inval.; Beta chilensis hort.; Beta cicla (L.) L.; vulgaris f. rhodopleura (Alef.) Helm; vulgaris f. vulgaris L.; vulgaris subsp. cicla (L.) Schübl. & G. Martens; Beta vulgaris subvar. flavescens DC.; Beta vulgaris var. altissima Döll; Beta vulgaris var. cicla L.; Beta vulgaris var. conditiva Alef.; Beta vulgaris var. flavescens (DC.) Mansf.; Beta vulgaris var. rapacea W. D. J. Koch; Beta vulgaris var. rubra DC.; Beta vulgaris var. saccharifera Alef.; Beta vulgaris var. vulgaris L.; Beta vulgaris var.-gr. crassa Alef.
1298	TG/150	BETAA_VUL_GVA	Beta vulgaris L. ssp. vulgaris var. alba DC.	Beta vulgaris L. ssp. vulgaris var. crassa Alef.; Beta vulgaris L. ssp. vulgaris var. crassa Mansf.; Beta vulgaris L. ssp. vulgaris var. rapacea K. Koch			
811	TG/60	BETAA_VUL_GVC	Beta vulgaris L. ssp. vulgaris var. conditiva Alef.	Beta vulgaris L. ssp. vulgaris var. esculenta L.; Beta vulgaris L. ssp. vulgaris var. hortensis			
195	TG/106	BETAA_VUL_GVF	Beta vulgaris L. ssp. vulgaris var. flavescens DC.	Beta vulgaris L. ssp. vulgaris var. cicla (L.) Ulrich; Beta vulgaris L. ssp. vulgaris var. vulgaris			
21799	/	BETAA_VUL_GVS	Beta vulgaris L. ssp. vulgaris var. saccharifera Alef.	Beta vulgaris L. ssp. vulgaris var. altissima Doell			

[Annex II follows]

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ANNEX II

UPOV CODES FOR *BRASSICA OLERACEA*: CURRENT SITUATION

UPOV code	Principal botanical name in GENIE	Botanical name(s) in GRIN	Common name(s) in GENIE	Number of entries in PLUTO
BRASS_OLE	<i>Brassica oleracea</i> L.	<i>Brassica oleracea</i> L.	n.a.	3,794
BRASS_OLE_GA	<i>Brassica oleracea</i> L. <i>convar. acephala</i> (DC.) Alef.	n.a.	Kale	156
BRASS_OLE_GAM	<i>Brassica oleracea</i> L. <i>convar. acephala</i> (DC.) Alef. <i>var. medullosa</i> Thell.	<i>Brassica oleracea</i> L. <i>var. medullosa</i> Thell.	Marrow-stem Kale	28
BRASS_OLE_GAR	<i>Brassica oleracea</i> L. <i>var. ramosa</i> DC.	<i>Brassica oleracea</i> L. <i>var. ramosa</i> DC.	branching bush kale; branching cabbage; perennial kale; perpetual kale; thousand-head kale	0
BRASS_OLE_GAS	<i>Brassica oleracea</i> L. <i>convar. acephala</i> (DC.) Alef. <i>var. sabellica</i> L.	<i>Brassica oleracea</i> L. <i>var. sabellica</i> L.	Borecole; Curly Kale; Dwarf Siberian kale; Kitchen kale; Scotch kale	415
BRASS_OLE_GAV	<i>Brassica oleracea</i> L. <i>convar. acephala</i> (DC.) Alef. <i>var. viridis</i> L.	<i>Brassica oleracea</i> L. <i>var. viridis</i> L.	Collards; Cow cabbage; Fodder Kale; Kale; Spring-heading cabbage; Tall kale; Tree kale	160
BRASS_OLE_GB	<i>Brassica oleracea</i> L. <i>convar. botrytis</i> (L.) Alef.	n.a.	n.a.	298
BRASS_OLE_GBB	<i>Brassica oleracea</i> L. <i>convar. botrytis</i> (L.) Alef. <i>var. botrytis</i>	<i>Brassica oleracea</i> L. <i>var. botrytis</i> L.	Cauliflower	3,522
BRASS_OLE_GBC	<i>Brassica oleracea</i> L. <i>var. italica</i> Plenck	<i>Brassica oleracea</i> L. <i>var. italica</i> Plenck	Calabrese; Cape broccoli; Sprouting Broccoli; Winter broccoli; asparagus broccoli; broccoli; heading broccoli; purple cauliflower	1,043
BRASS_OLE_GC	<i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef.	<i>Brassica oleracea</i> L. <i>var. capitata</i> L.	Cabbage	292
BRASS_OLE_GCA	<i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. alba</i> DC.	n.a.	White Cabbage	3,747
BRASS_OLE_GCR	<i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. rubra</i> (L.) Thell.	n.a.	Red Cabbage	619
BRASS_OLE_GCS	<i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. sabauda</i> L.	<i>Brassica oleracea</i> L. <i>var. sabauda</i> L.	Savoy Cabbage	533
BRASS_OLE_GGM	<i>Brassica oleracea</i> L. <i>var. gemmifera</i> Zenker	<i>Brassica oleracea</i> L. <i>var. gemmifera</i> DC.	Brussels Sprouts	950
BRASS_OLE_GGO	<i>Brassica oleracea</i> L. <i>var. gongylodes</i> L.	<i>Brassica oleracea</i> L. <i>var. gongylodes</i> L.	Kohlrabi; Stem turnip	543
BRASS_OLE_ALB	<i>Brassica oleracea</i> L. <i>var. alboglabra</i> (L. H. Bailey) Musil	<i>Brassica oleracea</i> L. <i>var. alboglabra</i> (L. H. Bailey) Musil	Chinese broccoli; Chinese kale	0
BRASS_OLE_COS	<i>Brassica oleracea</i> L. <i>var. costata</i> DC.	<i>Brassica oleracea</i> L. <i>var. costata</i> DC.	Bedford cabbage; Braganza; Portugese cole; Portugese kale; Seakale cabbage; Tronchuda cabbage; Tronchuda kale	16

[Appendix to Annex II follows]

APPENDIX TO ANNEX II

PROPOSAL ON CHANGES TO THE UPOV CODES FOR *BRASSICA OLERACEA*

Current			Proposal		
UPOV code	Principal botanical name	Other botanical name(s)	UPOV code	Principal botanical name	Other botanical name(s)
BRASS_OLE	<i>Brassica oleracea</i> L.	n.a.	BRASS_OLE	<i>Brassica oleracea</i> L.	<i>Brassica oleracea</i> L. <i>convar. acephala</i> (DC.) Alef.; <i>Brassica oleracea</i> L. <i>convar. botrytis</i> (L.) Alef.
BRASS_OLE_GA	<i>Brassica oleracea</i> L. <i>convar. acephala</i> (DC.) Alef.	n.a.	[to delete]	n.a.	n.a.
BRASS_OLE_GAM	<i>Brassica oleracea</i> L. <i>convar. acephala</i> (DC.) Alef. <i>var. medullosa</i> Thell.	<i>Brassica oleracea</i> L. <i>var. medullosa</i> Thell.	BRASS_OLE_GAM	<i>Brassica oleracea</i> L. <i>var. medullosa</i> Thell.	<i>Brassica oleracea</i> L. <i>convar. acephala</i> (DC.) Alef. <i>var. medullosa</i> Thell.
BRASS_OLE_GAS	<i>Brassica oleracea</i> L. <i>convar. acephala</i> (DC.) Alef. <i>var. sabellica</i> L.	<i>Brassica oleracea</i> L. <i>var. sabellica</i> L.	BRASS_OLE_GAS	<i>Brassica oleracea</i> L. <i>var. sabellica</i> L.	<i>Brassica oleracea</i> L. <i>convar. acephala</i> (DC.) Alef. <i>var. sabellica</i> L.
BRASS_OLE_GAV	<i>Brassica oleracea</i> L. <i>convar. acephala</i> (DC.) Alef. <i>var. viridis</i> L.	<i>Brassica oleracea</i> L. <i>var. viridis</i> L.	BRASS_OLE_GAV	<i>Brassica oleracea</i> L. <i>var. viridis</i> L.	<i>Brassica oleracea</i> L. <i>convar. acephala</i> (DC.) Alef. <i>var. viridis</i> L.
BRASS_OLE_GB	<i>Brassica oleracea</i> L. <i>convar. botrytis</i> (L.) Alef.	n.a.	[to delete]	n.a.	n.a.
BRASS_OLE_GBB	<i>Brassica oleracea</i> L. <i>convar. botrytis</i> (L.) Alef. <i>var. botrytis</i>	<i>Brassica cauliflora</i> lizg	BRASS_OLE_GBB	<i>Brassica oleracea</i> L. <i>var. botrytis</i> L.	<i>Brassica oleracea</i> L. <i>convar. botrytis</i> (L.) Alef. <i>var. botrytis</i> ; <i>Brassica cauliflora</i> lizg
BRASS_OLE_GC	<i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef.	<i>Brassica oleracea</i> L. <i>var. capitata</i> L.	BRASS_OLE_GC	<i>Brassica oleracea</i> L. <i>var. capitata</i> L.	<i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef.; <i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. capitata</i> (L.) Alef.; <i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. alba</i> DC.; <i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. capitata</i> L. f. <i>alba</i> DC. <i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. rubra</i> (L.) Thell.; <i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. capitata</i> L. f. <i>rubra</i> (L.) Thell.; <i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. alba</i> DC. x <i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. rubra</i> (L.) Thell
BRASS_OLE_GCA	<i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. alba</i> DC.	<i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. capitata</i> L. f. <i>alba</i> DC.	[to delete]	n.a.	n.a.
BRASS_OLE_GCR	<i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. rubra</i> (L.) Thell	<i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. capitata</i> L. f. <i>rubra</i> (L.) Thell.	[to delete]	n.a.	n.a.
BRASS_OLE_GCS	<i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. sabauda</i> L.	<i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. bullata</i> DC.	BRASS_OLE_GCS	<i>Brassica oleracea</i> L. <i>var. sabauda</i> L.	<i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. sabauda</i> L. ; <i>Brassica oleracea</i> L. <i>convar. capitata</i> (L.) Alef. <i>var. bullata</i> DC.

[Annex III follows]

ANNEX III

PROPOSALS TO AMEND UPOV CODES FOR *CITRUS*
Current situation and proposed UPOV code amendments

Current					Proposal		
Entries in PLUTO	TG	UPOV Code	Principal botanical name	Other botanical name(s)	UPOV Code	Principal botanical name	Other botanical name(s)
10	TG/202	CITRU_AUM	<i>Citrus aurantium</i> L.	n.a.	CITRU_AUM	<i>Citrus ×aurantium</i> L.	<i>Citrus amara</i> Link; <i>Citrus bigarradia</i> Loisel.; <i>Citrus intermedia</i> hort. ex Tanaka; <i>Citrus taitensis</i> Risso; <i>Citrus vulgaris</i> Risso; <i>Citrus ×aurantium</i> subsp. <i>aurantium</i> L.; <i>Citrus ×aurantium</i> subsp. <i>jambiri</i> Engl.; <i>Citrus ×aurantium</i> subsp. <i>keonla</i> Engl.; <i>Citrus ×aurantium</i> subsp. <i>suntara</i> Engl.; <i>Citrus ×aurantium</i> var. <i>aurantium</i> L.; <i>Citrus ×aurantium</i> var. <i>citrina</i> Lush.; <i>Citrus ×bigarradia</i> var. <i>volkameriana</i> Risso; <i>Citrus ×clementina</i> hort. ex Tanaka; <i>Citrus ×crenatifolia</i> Lush.; <i>Citrus reticulata</i> × <i>C. maxima</i> "
115	TG/201	CITRU_CLE	<i>Citrus clementina</i> hort. ex Tanaka	n.a.			
1	/	CITRU_MRE	<i>Citrus maxima</i> X <i>Citrus reticulata</i>	n.a.			
0	TG/201	CITRU_CRE	<i>Citrus crenatifolia</i> Lush.	n.a.			
0	TG/204	CITRU_INT	<i>Citrus intermedia</i> hort. ex Tanaka	n.a.			
12	TG/203	CITRU_AUR	<i>Citrus aurantiifolia</i> (Christm.) Swingle	<i>Citrus ×javanica</i> Blume	CITRU_AUR	<i>Citrus ×aurantiifolia</i> (Christm.) Swingle	<i>Citrus acida</i> Roxb.; <i>Citrus acida</i> var. <i>acida</i> Roxb.; <i>Citrus aurata</i> Risso; <i>Citrus excelsa</i> var. <i>davaoensis</i> Wester; <i>Citrus grandis</i> Hassk.; <i>Citrus grandis</i> var. <i>grandis</i> Hassk.; <i>Citrus grandis</i> var. <i>oblonga</i> Hassk.; <i>Citrus grandis</i> var. <i>sphaerocarpos</i> Hassk.; <i>Citrus hystrix</i> subsp. <i>acida</i> (Roxb.) Engl.; <i>Citrus lima</i> Lunan; <i>Citrus limetta</i> var. <i>aromatica</i> Wester; <i>Citrus limonellus</i> Hassk.; <i>Citrus limonellus</i> var. <i>limonellus</i> Hassk.; <i>Citrus limonellus</i> var. <i>oxycarpus</i> Hassk.; <i>Citrus medica</i> var. <i>acida</i> (Roxb.) Hook. f.; <i>Citrus ×aurantiifolia</i> var. <i>aurantiifolia</i> (Christm.) Swingle; <i>Citrus ×davaoensis</i> (Wester) Tanaka; <i>Citrus ×excelsa</i> Wester; <i>Citrus ×javanica</i> Blume; <i>Limonia aurantiifolia</i> Christm., <i>Citrus medica</i> × <i>C. micrantha</i> "
0	TG/203	CITRU_AUA	<i>Citrus aurata</i> Risso	n.a.			
0	TG/203	CITRU_DAV	<i>Citrus davaoensis</i> (Wester) Tanaka	n.a.			
0	TG/203	CITRU_EXC	<i>Citrus excelsa</i> Wester	n.a.			
0	/	CITRU_HYS	<i>Citrus hystrix</i> DC.	n.a.	CITRU_HYS	<i>Citrus hystrix</i> DC.	<i>Citrus auraria</i> Michel; <i>Citrus balincolong</i> (Tanaka) Tanaka; <i>Citrus boholensis</i> (Wester) Tanaka; <i>Citrus celebica</i> Koord.; <i>Citrus celebica</i> var. <i>celebica</i> Koord.; <i>Citrus combara</i> Raf.; <i>Citrus echinata</i> St.-Lag.; <i>Citrus hyalopulpa</i> Tanaka; <i>Citrus hystrix</i> subsp. <i>hystrix</i> DC.; <i>Citrus hystrix</i> var. <i>balincolong</i> Tanaka; <i>Citrus hystrix</i> var. <i>boholensis</i> Wester; <i>Citrus hystrix</i> var. <i>hystrix</i> DC.; <i>Citrus kerrii</i> (Swingle) Tanaka; <i>Citrus latipes</i> Hook. f. & Thomson; <i>Citrus macroptera</i> var. <i>annamensis</i> Tanaka; <i>Citrus macroptera</i> var. <i>kerrii</i> Swingle; <i>Citrus papeda</i> Miq.; <i>Citrus papuana</i> F. M. Bailey; <i>Citrus torosa</i> Blanco; <i>Citrus vitiensis</i> Tanaka; <i>Fortunella sagittifolia</i> K. M. Feng & P. I Mao; <i>Papeda rumphii</i> Hassk.
0	TG/203	CITRU_KER	<i>Citrus kerrii</i> (Swingle) Tanaka	<i>Citrus hyalopulpa</i> Tanaka			
149	TG/203	CITRU_LIM	<i>Citrus ×limon</i> (L.) Osbeck	<i>Citrus limon</i> (L.) Burm. f.; <i>Citrus medica</i> var. <i>limon</i> L.; <i>Citrus rissoi</i> Risso; <i>Citrus ×limonia</i> Osbeck; <i>Citrus ×mellarosa</i> Risso; <i>Citrus ×volkameriana</i> (Risso) V. Ten. & Pasq.	CITRU_LIM	<i>Citrus ×limon</i> (L.) Osbeck	<i>Citrus balotina</i> Poit. & Turpin; <i>Citrus bergamota</i> Raf.; <i>Citrus karna</i> Raf.; <i>Citrus limonum</i> Risso; <i>Citrus medica</i> var. <i>limon</i> L.; <i>Citrus rissoi</i> Risso; <i>Citrus ×limon</i> (L.) Burm. f.; <i>Citrus ×limonia</i> Osbeck; <i>Citrus ×mellarosa</i> Risso; <i>Citrus ×volkameriana</i> (Risso) V. Ten. & Pasq.; a hybrid of <i>Citrus ×aurantium</i> (<i>C. maxima</i> × <i>C. reticulata</i>) × <i>C. medica</i>
0	TG/203	CITRU_BAL	<i>Citrus balotina</i> Poit. & Turpin	n.a.			
0	TG/203	CITRU_KAR	<i>Citrus karna</i> Raf.	n.a.			
355	TG/201	CITRU_RET	<i>Citrus reticulata</i> Blanco	n.a.	CITRU_RET	<i>Citrus reticulata</i> Blanco	<i>Citrus benikoji</i> hort. ex Tanaka; <i>Citrus daoianensis</i> S. W. He & G. F. Liu; <i>Citrus depressa</i> var. <i>vangasay</i> (Bojer) H. Perrier; <i>Citrus nobilis</i> Andrews; <i>Citrus vangasay</i> Bojer
0	TG/201	CITRU_BEN	<i>Citrus benikoji</i> hort. ex Tanaka	n.a.			

[End of Annex III and of document]