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International Union for the Protection of New Varieties of Plants

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UPOV INFORMATION DATABASES

Document prepared by the Office of the Union

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EXECUTIVE SUMMARY

1. The purpose of this document is to present proposals on the "Genera and Species Database" (GENIE database), including UPOV codes for *Citrus*, and proposals for improvements to the UPOV Plant Variety Database (PLUTO database).

How to identify UPOV members with practical experience for cooperation in DUS examination

2. This document presents a proposal to revise the GENIE database to facilitate identifying UPOV members with experience in the examination of distinctness, uniformity and stability (DUS) of particular crops.

3. The Technical Committee (TC), at its sixtieth session[1], agreed that members sought cooperation in DUS examination directly with authorities with experience in examination of the crops of their interest. The TC agreed that information in the GENIE database and in the Council document "Cooperation in Examination" was outdated and could possibly be discontinued.

4. Discontinuing the "Cooperation in DUS Examination" part of the GENIE Database would not affect the provision of information on "Practical experience in DUS examination", which would continue to be collected and searchable online in the GENIE database, as well as in printable format in the TC document "List of genera and species for which authorities have practical experience in the examination of DUS". At their sessions in 2025, the Technical Working Parties (TWPs) agreed with this proposal.

5. The Council is invited to discontinue the section on "Cooperation in examination" [agreements] in the GENIE database and the Council document "Cooperation in Examination". The proposal would consolidate searches for cooperation into a single procedure in the GENIE database using information provided under "Practical experience in DUS examination" and the Technical Committee document "List of genera and species for which authorities have practical experience in the examination of distinctness, uniformity and stability."

UPOV Codes: Reclassification of *Citrus*, ×*Citroncirus, Fortunella* and *Poncirus* taxa

6. This document presents a proposal to revise UPOV codes for genera and species of the *Citrus* complex no longer recognized as valid botanical names, including the several *Citrus* species and the genera ×*Citroncirus, Fortunella* and *Poncirus*.

7. The Technical Working Party for Fruit Crops (TWF), at its session in 2025, considered the UPOV codes affected by the reclassification and agreed to invite Spain to lead discussions on this matter. A proposal to revise the UPOV codes for the genera ×*Citroncirus, Fortunella* and *Poncirus* is presented in Annex I to this document.

[1] Held in Geneva on October 21 and 22, 2024. See document TC/60/8 "Report", paragraph 40.

PLUTO Database

8. The need to improve the completeness and timeliness of data submitted to PLUTO has been identified. In order to address this matter, it is essential to understand the reasons and factors limiting data contributions. The UPOV Office will carry out a survey among UPOV members in 2025 to that end.

9. Another survey will be carried out in 2026 among PLUTO users and other potential user groups to gain further insights into the data, efficiency and user-friendliness of the search functionality of PLUTO.

10. A roadmap setting out the work that is planned to be carried out in 2026-2027 to develop PLUTO and improve the completeness and timeliness of contributions can be found at the end of this document.

11. The structure of this document is as follows:

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12. The following abbreviations are used in this document:

CAJ:	Administrative and Legal Committee
TC:	Technical Committee
TWA:	Technical Working Party for Agricultural Crops
TWF:	Technical Working Party for Fruit Crops
TWM:	Technical Working Party for Testing Methods and Techniques
TWO:	Technical Working Party for Ornamental Plants and Forest Trees
TWP(s):	Technical Working Party(ies)
TWV:	Technical Working Party for Vegetables

GENIE DATABASE: FINDING COOPERATION IN DUS EXAMINATION

Background

13. The TC, at its sixtieth session[2], agreed that members sought cooperation in DUS examination directly with authorities with experience in examination of the crops of their interest. The TC agreed that information in the GENIE database and the Council document "Cooperation in Examination" was outdated and could possibly be discontinued.

14. At their sessions in 2025, the TWO, TWV, TWA and TWF agreed[3] with the proposal to discontinue the section on "Cooperation in DUS Examination" in the GENIE database. The TWO, TWV, TWA and TWF noted that information on "Practical experience in DUS examination" would continue to be collected and provided in the GENIE database and the TC document "List of genera and species for which authorities have practical experience in the examination of distinctness, uniformity and stability."

15. The following section provides the rationale to discontinue the section "Cooperation in DUS Examination" in the GENIE Database and to consolidate information on "Practical experience in DUS examination". Discontinuing the section on "Cooperation in DUS Examination" would include discontinuing the provision of data on cooperation agreements for DUS examination on behalf of other UPOV members; and declarations of use of DUS test reports provided by other UPOV members.

Data collection and publication

16. UPOV members are invited annually to provide information on "Cooperation in DUS examination" and "Practical experience in DUS examination". The information compiled is presented in Council document C/[XX]/5 "Cooperation in Examination". The document provides "general notes" and a list of genera and species with the authorities that report their availability to carry out examination on behalf, or utilize DUS reports provided by, other authorities. The same information provided in the Council document is available online in the GENIE database:

17. Since 2019, a total of 38 members have provided information on cooperation in DUS examination. The largest number of contributions was received in 2024, with 14 members providing information.

18. Discontinuing the "Cooperation in Examination" part of the GENIE database would not affect the other part of the database dealing with "Practical experience in DUS examination".

Identifying UPOV members with experience in DUS examination of different crops

19. UPOV members usually seek cooperation in DUS examination directly with authorities having experience in examination of crops of their interest. Information on which authority has experience in examination is provided in the GENIE database for any particular crop under "Practical experience in DUS examination". When identifying the authorities having experience in examination of a certain crop, information on the cooperation in examination between authorities is of very limited relevance.

GENIE Database: Practical experience in DUS examination

20. Contact persons of members of the Union at the TC are invited every year to update the list of genera and species for which they have practical experience in DUS examination. The information is compiled in TC document TC/[XX]/4 "List of genera and species for which authorities have practical experience in DUS examination". The document provides information as a list of genera and species with the respective authorities that declare having experience examining the crop. The same information provided in the TC document is available online in the GENIE database.

21. Since 2019, a total of 28 members have provided information on practical experience in DUS examination. The largest number of contributions was received in 2024, with 14 members providing information.

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[2] Held in Geneva on October 21 and 22, 2024. See document TC/60/8 "Report", paragraph 40.

[3] See documents TWO/57/10 "Report", paragraphs 28 and 29; TWV/59/19 "Report", paragraphs 22 and 23; TWA/54/7 "Report", paragraphs 11 and 12; and TWF/56/7 "Report", paragraphs 23 and 24.

PLUTO database

22. The TC, at its sixtieth session[4], considered how UPOV members can search for information on experience in DUS examination and noted that the PLUTO database was commonly used by members.

23. Experience in DUS examination may be derived from the PLUTO database by searching for UPOV members receiving applications and granting titles for the different genera and species. Searches can be conducted for a defined period of time, identifying UPOV members with recent experience handling applications for particular crops.

24. The TC considered options to identify the authority that had conducted the technical examination of a variety and agreed that this information was required in the UPOV Model Form for the Application for Plant Breeders' Rights (document TGP/5, Section 2).

UPOV e-PVP DUS Report Exchange Platform

25. The UPOV e-PVP DUS Report Exchange Platform enables users to commission DUS examination and exchange existing test reports. Information on the authorities offering DUS test reports can be derived directly from the UPOV e-PVP DUS Report Exchange Platform. A report on developments will be provided to the TWPs, at their sessions in 2026.

26. The TC, at its sixtieth session[4], noted that the UPOV e-PVP DUS Report Exchange Platform provided information on test reports available for exchange and offered to conduct DUS examination on behalf of other authorities.

Proposal

27. The Council may wish to consider discontinuing the section on "Cooperation in DUS Examination" in the GENIE database (e.g. cooperation agreements for DUS examination on behalf of other UPOV members; and declarations on the use of DUS test reports provided by other UPOV members).

28. Discontinuing the section on "Cooperation in DUS Examination" would not affect the section "Practical experience in DUS examination" of the GENIE database, nor the publication of document "List of genera and species for which authorities have practical experience in the examination of DUS" (see document TC/61/4).

29. The Council is invited to consider discontinuing the section on "Cooperation in DUS Examination" in the GENIE database and the Council document with the same title, with the understanding that such a decision would not affect the section "Practical experience in DUS examination" of the GENIE database, nor the publication of document "List of genera and species for which authorities have practical experience in the examination of DUS", as set out in paragraphs 13 to 28 of this document.

GENERA AND SPECIES DATABASE (GENIE DATABASE)

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

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

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[4] Held in Geneva, on October 21 and 22, 2024.

[5] See documents C/[session]/INF/6 "List of the taxa protected by the members of the Union; C/[session]/INF/5 "Cooperation in Examination"; TC/[session]/INF/4 "List of genera and species for which authorities have practical experience in the examination of distinctness, uniformity and stability"; and TC/[session]/2 "Test Guidelines".

32. In 2024, 505 new UPOV codes were created. The total number of UPOV codes in the GENIE database as of December 31, 2024, was 10,109.

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
New UPOV codes	577	188	173	440	242	243	177	131	183	78	505
Total UPOV Codes	7,808	7,992	8,149	8,589	8,844	9,077	9,213	9,342	9,525	9,605	10,109

UPOV CODES FOR CITRUS

Background

33. The TC, at its fifty-seventh session[6], 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 provided below. This reclassification merged under the same botanical name different species from the group "oranges" (TG/202) and group "mandarins" (TG/201), which have separate Test Guidelines. The TC agreed to append information to the UPOV code CITRU_AUM to enable data contributors to indicate when a variety belonged to group "1MA" for mandarins; and "2OR" for oranges.

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

34. As consequential changes, the TC agreed that the UPOV codes CITRU_CLE, CITRU_MRE, CITRU_CRE, CITRU_INT, CITRU_AUR, CITRU_DAV, CITRU_EXC, CITRU_KER, CITRU_BAL, CITRU_KAR and CITRU_BEN should be deleted. The TC agreed with 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.

35. The TC, at its sixtieth session[7], noted the reclassification of genera and species of the *Citrus* complex which are no longer recognized as valid botanical names, including the genera ×*Citroncirus*, *Fortunella* and *Poncirus*. The TC agreed to submit to the TWF a proposal for amending the UPOV codes for *Citrus* and related genera and species, as provided in Annex I to this document.

[6] Held in Geneva, on October 25 and 26, 2021.

[7] Technical Committee, sixtieth session, held in Geneva on October 21 and 22, 2024. See document TC/60/8 "Report", paragraph 56.

Proposals for amendments to UPOV codes for *Citrus*

36. The TWF, at its fifty sixth session[8], considered the proposals for amending the UPOV codes for *Citrus* and related genera and species, as provided in Annex I to this document.

37. The TWF agreed to invite experts to provide comments on the proposed amendments, to be submitted to the Office of the Union by July 24, 2025. The TWF agreed that UPOV codes receiving comments would be considered by the TWF, at its session in 2026; and the remaining UPOV Codes would be proposed to the Technical Committee to be amended.

38. Following the fifty-sixth session of the TWF, the UPOV Office received comments on a number of UPOV codes that would require further discussion on the latest taxonomical information.

39. As a result of the process agreed by the TWF, Annex I to this document presents a proposal to amend the UPOV codes for the genera ×*Citroncirus*, *Fortunella* and *Poncirus*. Members of the Union and contributors of data to the PLUTO database would be informed in advance by means of a circular of any deletions and the date in 2026 when these would be implemented. Contributors of data to the PLUTO database would be requested to use the updated UPOV codes when submitting their plant variety data to the Office of the Union.

40. The TC is invited to consider a proposal to amend the UPOV codes for the genera ×Citroncirus, Fortunella and Poncirus, as set out in Annex I to this document.

Revision of common names associated with UPOV codes for Citrus

41. The TWF agreed that the common names for some UPOV codes for *Citrus* should be revised. The TWF agreed to invite Spain to lead the revision of the common names associated with the UPOV codes for *Citrus*, in collaboration with Australia, Canada, China, European Union, Japan, Morocco, New Zealand, Republic of Korea and CIOPORA.

Revision of scope of the five Test Guidelines for Citrus groups

42. The TWF agreed that the revision of UPOV codes provided the opportunity to redefine the scope of the five Test Guidelines for *Citrus* groups (documents TG/83, TG/201, TG/202, TG/203 and TG/204).

43. The TWF noted the proposal from Spain “To provide a structured classification of *Citrus* varieties adapted to official registration [plant variety protection/national listing], integrating the most current and scientifically rigorous classification proposal with practical and commercial use.”

44. The TWF agreed that the outcome of the work led by Spain would provide the basis for the revision of scope of the five Test Guidelines for *Citrus* and confirming the common names associated with the respective UPOV codes for consideration by the TWF, at its session in 2026.

45. The TC is invited to note developments on the revision of common names associated with UPOV codes for Citrus and the revision of scope of the five Test Guidelines for Citrus groups, as set out in paragraphs 41 to 44 of this document.

PLUTO DATABASE

Current Use and Access

46. The number and different types of users of the PLUTO database from 2021 to 2025 are indicated in the table below:

[8] Held in Bursa, Türkiye, from June 23 to 26, 2025. See document TWF/56/7 “Report”, paragraphs 25 to 31.

Type of users	2021	2022	2023	2024	2025*
Paying *premium* users	9	21	52	8	15
Non-paying *premium* users (Eligible Officials)	97	136	149	151	158
PVP contributors	28	43	59	61	62
Other users (standard service)	1,131	2,704	4,370	4,855	6,486

*as of August 2025.

47. A report on data contributed to PLUTO by members of the Union and other contributors is provided in Annex II to this document.

48. Since the sessions of the TC and CAJ in 2024, the Office of the Union arranged initial online sessions with the following new contributors to outline the contribution process and familiarize them with the PLUTO database interface for contributors:

- Brazil (National Listing)
- Oman
- Türkiye

49. During the October sessions in 2024, the Office of the Union offered service helpdesk sessions to assist in the process of providing data to the PLUTO database. Assistance was provided to delegates from Albania, China, Republic of Korea and Uruguay. The same type of service helpdesk assistance will be provided at the fringes of the UPOV sessions in October 2025.

Data contribution

50. PLUTO contributors should aim to submit data as frequently as possible, ideally right after its publication. The percentage of PVP applications of UPOV members included in the PLUTO database within one year was 40% in 2024. It is anticipated that there will be an increase of the 2024 figures due to expected contributions in 2025. Contributions from UPOV members continue to vary in frequency, having an impact on data timeliness. Consequently, this has an impact on the completeness of data provided to users for searching, reducing the efficiency of the tool as the search results may exclude records from non-contributing authorities.

Challenges faced by data contributors

51. To improve the completeness and timeliness of contributions to the PLUTO database, it is essential to understand the reasons behind limited contributions.

52. Through direct engagement and feedback, the Office of the Union identified the challenges listed below as key factors making the data contribution difficult, particularly for new data contributors:

(a) data submission template is complex;

(b) improper data field mapping may result in inaccurate data being loaded into the system; and

(c) compliance report generated after data submission is insufficiently informative to guide necessary corrections.

53. In addition, the update of UPOV codes (including deletions and replacements) is not done automatically for the old data.

Future plans

54. To understand additional factors affecting the completeness and timeliness of data contributions, a survey will be distributed to UPOV members in 2025.

55. To address the identified challenges in data contribution, the following goals are proposed:

(a) encourage increased participation: aim to increase the percentage of PVP applications of UPOV members included in PLUTO database within one year to 60% in 2027 (see document C/59/4 “Draft Program and Budget for the 2026-2027 Biennium”);

(b) improve the data submission experience:

(i) data preparation: in consultation with each new contributing UPOV member, the UPOV office will create a customized guideline that defines the meaning and data constraints of each PLUTO data field corresponding to that UPOV member. This process involves reviewing the UPOV member’s data structure to support consistency and usability of PLUTO data;

(ii) data validation: develop and provide a data quality checking tool that enables the identification and correction of data quality issues, including verifying mandatory fields for each record status, ensuring denomination statuses are paired with corresponding dates, and standardizing date formats;

(iii) data submission: keep the Text format (SGML-Standard Generalized Markup Language) for existing contributors and make other ways to contribute data available:

- using machine to machine: API;
- improving excel templates;
- using UPOV e-PVP Administration Module.

56. The UPOV Office will explore ways to develop a data quality checking tool in cooperation with the Community Plant Variety Office of the European Union (CPVO) to enhance efficiency of data provision to the PLUTO database.

PLUTO Search

Challenges faced by the users

57. Feedback indicates that new search functions are required by PLUTO search users:

(a) search by multiple UPOV codes or crop group;

(b) search by different parties at the same time: for example, it is not possible to search for all varieties where the breeder is BREEDER X and the Agent is AGENT Y;

(c) ignore case-sensitiveness of the search criteria;

(d) filter by all the fields;

(e) have an aggregated view of the results by authority, crop group, year.

58. To gain further insights into the efficiency and user-friendliness of the search functionality, a survey will be distributed to all PLUTO users as well as other potential user groups, such as UPOV PRISMA users, distance learning students, and breeders’ associations.

59. In 2024, the number of paying *premium* users was eight (8). To attract more paying *premium* users, it is necessary to identify the challenges and to address them to make the tool more attractive.

Future plans

60. In order to improve the user experience, the following actions are proposed:

(a) address the limitations raised in paragraph 57;

(b) enhanced synonym recognition for species and denominations;

(c) better handling of non-Roman characters and multilingual data; and

(d) clearer explanations for users on what fields are being searched.

61. The current denomination search functionality in the PLUTO database could be improved in identifying similar or confusing variety denominations. AI-based tools for natural language and pattern recognition could significantly improve these capabilities. Depending on available resources, the use of such AI tools may be explored.

Roadmap

62. At its seventy-sixth session[9], the CAJ agreed on the Program for Improvements to the PLUTO database as provided in document CAJ/76/7 "UPOV information databases", including the provision of assistance to members, data format and frequency of data contribution. It is proposed to report on what was achieved and reconsider this program, especially sections 3 and 6, at the eighty-third session of the CAJ to be held in 2026 to reflect the future plans.

63. The following roadmap outlines proposed actions in 2026-2027:

Timeframe	Activity
Quarter 4, 2025	Launch contributor survey
Quarter 1, 2026	Launch user survey
Quarters 1 to 3, 2026	Identify the requirements and propose a plan for improvements
October 2026	Report progress to the CAJ and TC; propose a new version of the Program for Improvements to the PLUTO database for adoption by the CAJ at its eighty-third session in 2026
Quarter 4, 2026 to quarter 3, 2027	Implement the agreed improvements
Quarter 4, 2027	Aim for 60% as the percentage of PVP applications of UPOV members included in PLUTO database within one year and measurable data quality improvements

64. The CAJ is invited to:

(a) note the current use of PLUTO and the challenges faced by data contributors and other users;

(b) consider conducting two surveys:

(i) a survey to UPOV members to understand additional factors affecting the completeness and timeliness of data contributions;

(ii) a survey to all users, and future users, to gain insights into the data, efficiency and user-friendliness of the search functionality; and

(c) consider the roadmap presented in paragraph 63.

[Annexes follow]

[9] Held on October 30, 2019. See document CAJ/76/9 "Report", paragraph 46.

ANNEX I

PROPOSAL FOR AMENDING THE UPOV CODES FOR CITRUS AND RELATED GENERA AND SPECIES

Entries in PLUTO	UPOV TG	Current		Proposal for Amendment			Common Name EN	Common Name FR	Common Name DE	Common Name ES
		UPOV code		New or Integrated UPOV code	Valid botanical name	Other botanical name(s)				
1		CITFO		CITRU	*Citrus* L.	×*Citrofortunella* J. W. Ingram & H. E. Moore; *Citrus* L. × *Fortunella* Swingle	orange, mandarin, lemon, pummelo, grapefruit, non-kumquat citrus × kumquat			
16		FORTU					kumquat	kumquat	Kumquat; Zwergorangen; Zwergpomeranzen	kumquat; naranjo enano; naranjo chino
1		PONCI					trifoliate orange; Japanese bitter orange; Chinese bitter orange; hardy orange	oranger trifolié; citronnier épineux	Dreiblättrige Orange; Dreiblättrige Bitterorange; Bitterorange; Bitterzitrone	naranjo trifoliado; naranjo espinoso; naranjo trébol

Entries in PLUTO	UPOV TG	Current		Proposal for Amendment			Common Name EN	Common Name FR	Common Name DE	Common Name ES
		UPOV code		New or Integrated UPOV code	Valid botanical name	Other botanical name(s)				
0	TG/83	CITRO_NTR		CITRU_ATR	Hybrids between *Citrus* ×*aurantium* L. × *Citrus trifoliata* L.	Hybrids between *Citrus nobilis* Lour. × *Poncirus trifoliata* (L.) Raf.; Hybrids between *Citrus* ×*aurantium* L. var. *chrysocarpa* (Hassk.) ined. × *Citrus trifoliata* L.; *Citrus aurantium* L. × *Poncirus trifoliata* (L.) Raf; Hybrids between *Citrus* ×*aurantium* L. var. *racemosa* (Risso) ined. and *Citrus trifoliata* L.; *Citrus reshni* hort. ex Tanaka × *Poncirus trifoliata* (L.) Raf.; *Citrus sunki* (Hayata) hort. ex Tanaka × *Poncirus trifoliata* (L.) Raf.; *Citrus reticulata* Blanco var. *austera* Swingle × *Poncirus trifoliata* (L.) Raf.; *Citrus nobilis* Lour. var. *sunki* Hayata × *Poncirus trifoliata* (L.) Raf.; *Citrus* ×*paradisi* Macfad. × *Poncirus trifoliata* (L.) Raf.; *Citrus* ×*clementina* hort. ex Tanaka × *Poncirus trifoliata* (L.) Raf.; *Citrus sunki* (Hayata) hort. ex Tanaka × *Poncirus trifoliata* (L.) Raf.; *Citrus reticulata* Blanco var. *austera* Swingle × *Poncirus trifoliata* (L.) Raf.; *Citrus nobilis* Lour. var. *sunki* Hayata × *Poncirus trifoliata* (L.) Raf.	'King' mandarin × trifoliate orange; citrandarin	mandarinier King × oranger trifolié; citrandarin	Mandarine 'King' × Dreiblättrige Orange; Citrandarin	mandarino 'King' × naranjo trifoliado; citrandarin
0		CITRO_ATR					citradia	citradia	Citradia	citradia
8		CITRO_PTR					citrumelo	citrumelo	Citrumelo	citrumelo
32		CITRO_CTR					citrentin	citrentin	Citrentin	citrentin
0		CITRO_STR					'Sunki' sour mandarin × trifoliate orange; 'Sunkat' sour mandarin × trifoliate orange	mandarinier Sunki × oranger trifolié	Mandarine 'Sunki' × Dreiblättrige Orange	mandarino 'Sunki' × naranjo trifoliado
		CITRO_HTR					'Cleopatra' sour mandarin × trifoliate orange; 'Sunki' sour mandarin × trifoliate orange; 'Billi Kichili' sour mandarin × trifoliate orange; 'Sunkat' sour mandarin × trifoliate orange	mandarinier Cleopatra × oranger trifolié; mandarinier Sunki × oranger trifolié	Mandarine 'Cleopatra' × Dreiblättrige Orange; Mandarine 'Sunki' × Dreiblättrige Orange	mandarino 'Cleopatra' × naranjo trifoliado; mandarino 'Sunki' × naranjo trifoliado
0	TG/201	FORTU_HIN		CITRU_HIN	*Citrus hindsii* (Champ. ex Benth.) Govaerts	*Fortunella hindsii* (Champ. ex Benth.) Swingle	Hong Kong kumquat; 'Jindou' kumquat; Hongkong kumquat; golden bean kumquat	kumquat de Hong Kong; kumquat sauvage	Hongkong-Kumquat; Chinesische Kumquat; Wilder Kumquat	kumquat de Hong Kong

Entries in PLUTO	UPOV TG	Current		Proposal for Amendment			Common Name EN	Common Name FR	Common Name DE	Common Name ES
		UPOV code		New or Integrated UPOV code	Valid botanical name	Other botanical name(s)				
0		CITRO_HTS		CITRU_HTS	(*Citrus* ×*aurantium* L. var. *chrysocarpa* (Hassk.) ined. × *Citrus trifoliata* L.) × *Citrus* ×*aurantium* L. var. *sinensis* L.	(*Citrus reshni* hort. ex Tanaka × *Poncirus trifoliata* (L.) Raf.) × *Citrus sinensis* (L.) Osbeck	('Cleopatra' sour mandarin × trifoliate orange) × sweet orange	(mandarinier Cleopatra × oranger trifolié) × oranger douce	(Mandarine 'Cleopatra' × Dreiblättrige Orange)' × Süße Orange	(mandarino 'Cleopatra' × naranjo trifoliado) × naranjo dulce
0		FOPON		CITRU_HYB	*Citrus* hybr.	*Fortunella* sp. × *Poncirus* sp.; *Fortunella* × *obovata* hort. ex Tanaka; ×*Citroncirus* hybr. ; *Fortunella* sp. × *Poncirus* sp.; *Citrus* × *Citrus trifoliata* L.	citrumquat	citrumquat	none	none
0		FORTU_OBO					'Changshou' kumquat; 'Fukushu' kumquat; 'Jiangsu' kumquat	kumquat du Changshou; kumquat de Fukushu	'Changshou'-Kumquat	kumquat 'Changshou'
2		CITRO_HYB					citrus hybrid	none	none	none
0		FOPON_TRI					citrumquat	citrumquat	none	none
8	TG/83	CITRO		CITRU_INS	*Citrus* ×*insitorum* Mabb.	*Citrus* × *Poncirus;* ×*Citroncirus* J. W. Ingram & H. E. Moore; ×*Citroncirus webberi* J. W. Ingram & H. E. Moore; *Citrus sinensis* × *Poncirus trifoliata*	citrange	citrange	Citrange	citrange
21		CITRO_WEB					citrange	citrange	Citrange	citrange

Entries in PLUTO	UPOV TG	Current		Proposal for Amendment			Common Name EN	Common Name FR	Common Name DE	Common Name ES
		UPOV code		New or Integrated UPOV code	Valid botanical name	Other botanical name(s)				
0	TG/201	FORTU_CRA		CITRU_JAP	*Citrus japonica* Thunb.	*Fortunella japonica* (Thunb.) Swingle; *Fortunella crassifolia* Swingle; Fortunella margarita (Lour.) Swingle	large round kumquat; 'Meiwa' kumquat; 'Jindan' kumquat; 'Neiha' kumquat	kumquat Meiwa	Meiwa-Kumquat	kumquat 'Meiwa'
0	TG/201	FORTU_JAP					'Marumi' kumquat; round kumquat; 'Luowen' kumquat; round cumquat	kumquat Marumi; kumquat rond; kumquat du Japon	Marumi-Kumquat; Runde Kumquat; Marumikumquat	kumquat redondo; naranjita japonesa
2	TG/201	FORTU_MAR					'Nagami' kumquat; oval kumquat; 'Luofu' kumquat; oval cumquat	kumquat Nagami; kumquat ovale; kumquat à fruits oblongs	Ovale Kumquat; Ovalkumquat	kumquat 'Nagami'
0		CITRO_JTR		CITRU_JTR	*Citrus* ×*otaitensis* (Risso & Poit.) Risso × *Citrus trifoliata* L.	*Citrus jambhiri* Lush. × *Poncirus trifoliata* (L.) Raf.	rough lemon × trifoliate orange	rough lemon × oranger trifolié	Jambhiri-Zitronen × Dreiblättrige Orange	limonero rugoso × naranjo trifoliado
2		CITRO_LTR		CITRU_LTR	Hybrids between *Citrus latipes* (Swingle) Tanaka × *Citrus trifoliata* L.	*Citrus latipes* (Swingle) Tanaka × *Poncirus trifoliata* (L.) Raf.	Khasi papeda × trifoliate orange	Khasi papeda × oranger trifolié	Khasi-Papeda × Dreiblättrige Orange	papeda de Khasi × naranjo trifoliado
0		CITFO_MIC		CITRU_MIC	*Citrus* ×*microcarpa* Bunge	*Citrus madurensis* auct.; *Citrus microcarpa* Bunge; *Citrus mitis* Blanco; *Citrus reticulata* × *Fortunella japonica*; ×*Citrofortunella mitis* (Blanco) J. W. Ingram & H. E. Moore; ×*Citrofortunella microcarpa* (Bunge) Wijnands	calamondin; calamansi; kalamansi; calamonding; China orange; Panama orange; Philippine lime; calamandarin; golden lime; musk lime	calamondin; calamansi; lime des Philippines; citron des Philippines; oranger d'appartement; oranger d'intérieur	Calamondinorange; Kalamansi	calamondina; calamansí; naranjita de San José

Entries in PLUTO	UPOV TG	Current		Proposal for Amendment			Common Name EN	Common Name FR	Common Name DE	Common Name ES
		UPOV code		New or Integrated UPOV code	Valid botanical name	Other botanical name(s)				
0	TG/83	PONCI_POL		CITRU_POL	*Citrus polytrifolia* Govaerts	*Poncirus* ×*polyandra* S. Q. Ding et al.; *Poncirus polyandra* S. Q. Ding et al.	Fumin trifoliate orange; Fuming trifoliate orange; evergreen trifoliate orange; Fumin evergreen trifoliate orange	poncirus polyandre		
0	TG/201	CITFO_RHI		CITRU_RJA	*Citrus reticulata* Blanco × *Citrus hindsii* (Champ. ex Benth.) Govaerts	*Citrus* ×*aurantium* L. var. *chrysocarpa* (Hassk.) ined. × *Citrus hindsii* (Champ. ex Benth.) K. M. Liu, G. W. Hu, and X. Z. Cai, comb. nov.	mandarin × Hong Kong kumquat; mandarinquat?	mandarinier × kumquat de Hong Kong	none	mandarino × kumquat de Hong Kong
10		CITRO_RTR		CITRU_RTR	Hybrids between *Citrus reticulata* Blanco × *Citrus trifoliata* L.	*Citrus reticulata* Blanco × *Poncirus trifoliata* (L.) Raf.	citrandarin	citrandarin	Citrandarin	citrandarin
0		FORTU_POL		CITRU_SWI	*Citrus* ×*swinglei* Burkill ex Harms	*Fortunella* x *polyandra* (Ridl.) Tanaka; *Fortunella polyandra* (Ridl.) Tanaka; *Citrus swinglei*	Malayan kumquat; long-leaved kumquat; Swingle's kumquat; hedge lime	kumquat de Malasie	Malayische Kumquat	kumquat Malayo
0		CITRO_TLI		CITRU_TLI	*Citrus trifoliata* L. × *Citrus* ×*limon* (L.) Osbeck	*Poncirus trifoliata* × *Citrus limon*	citremon	citremon	Citremon	citremon
36	TG/83	PONCI_TRI		CITRU_TRI	*Citrus trifoliata* L.	*Poncirus trifoliata (L.) Raf.*	trifoliate orange; Japanese bitter orange; Chinese bitter orange; hardy orange	citronnier épineux; oranger trifolié	Dreiblättrige Orange; Bitterorange; Bitterzitrone	naranjo trifoliado; naranjo espinoso; naranjo trébol

[Annex II follows]

ANNEX II

REPORT ON DATA CONTRIBUTED TO PLUTO BY MEMBERS OF THE UNION AND OTHER CONTRIBUTORS

Contributor		Number of applications for PBR in 2024[10]	Number of new data submissions to PLUTO						
			2019	2020	2021	2022	2023	2024	2025
African Intellectual Property Organization	OA	7	0	0	0	0	0	0	0
Albania	AL	0	0	0	0	0	0	0	0
Argentina	AR	341	3	0	7	30	17	32	19
Armenia	AM	0	-	-	-	-	-	0	0
Australia	AU	295	21	5	5	16	8	2	0
Austria	AT	0	5	4	0	0	3	5	1
Azerbaijan	AZ	10	0	0	0	0	0	0	0
Belarus	BY	47	0	1	0	0	1	1	2
Belgium	BE	0	4	3	5	0	4	9	1
Bolivia (Plurinational State of)	BO	7	0	1	0	0	1	0	1
Bosnia and Herzegovina	BA	0	0	0	0	0	0	0	0
Brazil	BR	336	11	3	2	9	8	11	11
Bulgaria	BG	17	10	3	0	6	6	8	1
Canada	CA	338	11	11	0	3	12	11	9
Chile	CL	103	4	5	3	4	6	7	5
China	CN	16,177	1	1	3	0	0	2	4
Colombia	CO	114	0	2	0	1	0	0	1
Costa Rica	CR	11	0	2	1	0	0	0	1
Croatia	HR	2	2	2	0	1	1	2	0
Czech Republic	CZ	50	7	9	0	4	6	4	6
Denmark	DK	3	10	10	0	0	0	2	3
Dominican Republic	DO	8	0	0	1	2	1	1	1
Ecuador	EC	72	0	1	1	0	0	0	1
Egypt	EG	90	0	-	-	1	2	10	1
Estonia	EE	8	6	3	0	2	4	7	1
European Union	QZ	3,268	9	7	2	9	7	4	4
Finland	FI	11	3	2	0	4	1	3	1
France	FR	98	12	8	0	8	9	9	2
Georgia	GE	14	0	0	1	0	1	0	1
Germany	DE	22	10	8	0	9	5	10	3
Ghana	GH	27	-	-	-	0	0	0	0
Hungary	HU	37	13	14	0	5	9	8	2
Iceland	IS	0	0	0	1	0	0	0	0
Ireland	IE	3	3	1	0	2	2	4	2
Israel	IL	49	0	1	0	2	1	0	1
Italy	IT	13	5	6	0	1	1	0	1
Japan	JP	599	1	2	1	0	0	1	1
Jordan	JO	5	0	0	1	0	0	0	1
Kenya	KE	88	0	0	1	0	1	0	1
Kyrgyzstan	KG	4	0	0	1	0	0	0	1
Latvia	LV	17	1	2	0	2	0	1	0
Lithuania	LT	5	5	4	0	2	1	1	1
Mexico	MX	255	0	4	1	2	2	4	0
Montenegro	ME	0	0	0	0	0	0	0	0
Morocco	MA	87	0	1	1	1	0	0	1
Netherlands (Kingdom of the)	NL	800	12	12	0	7	11	2	2
New Zealand	NZ	105	6	7	3	6	6	7	7

[10] See document C/58/7 “Plant variety protection statistics for the period 2019-2023”.

Highlighted in grey indicates data provided via the CPVO.

Contributor		Number of applications for PBR in 2024[10]	Number of new data submissions to PLUTO						
			2019	2020	2021	2022	2023	2024	2025
Nicaragua	NI	n/a	0	1	1	1	0	0	2
Nigeria	NG	n/a	-	-	-	-	-	-	0
North Macedonia	MK	5	0	0	0	0	0	0	0
Norway	NO	15	7	3	0	4	3	2	1
Oman	OM	0	0	0	1	0	0	0	0
Panama	PA	5	0	0	0	0	1	0	0
Paraguay	PY	39	0	0	1	2	1	1	0
Peru	PE	51	1	0	1	1	2	1	0
Poland	PL	133	3	4	0	2	4	8	2
Portugal	PT	0	1	4	0	0	3	2	0
Republic of Korea	KR	573	3	1	1	0	0	0	0
Republic of Moldova	MD	24	2	2	3	1	1	2	2
Romania	RO	41	5	4	0	1	3	4	1
Russian Federation	RU	809	3	1	1	0	0	0	0
Saint Vincent and the Grenadines	VC	0	-	-	0	0	0	0	0
Serbia	RS	57	1	2	2	1	3	1	1
Singapore	SG	2	0	0	0	0	0	0	0
Slovakia	SK	4	4	3	0	0	2	5	2
Slovenia	SI	0	3	2	0	2	2	4	2
South Africa	ZA	237	3	0	1	0	0	1	0
Spain	ES	62	4	8	0	7	5	7	2
Sweden	SE	3	8	9	0	7	5	9	1
Switzerland	CH	45	6	8	1	3	7	1	3
Trinidad and Tobago	TT	0	0	0	0	0	0	0	0
Tunisia	TN	23	0	0	0	0	0	0	0
Türkiye	TR	224	1	0	0	0	1	1	0
Ukraine	UA	734	5	0	0	0	6	23	9
United Kingdom	GB	796	8	8	0	7	7	12	1,373*
United Republic of Tanzania	TZ	6	0	0	0	0	0	0	0
United States of America	US	467	12	10	0	13	2	18	14
Uruguay	UY	62	0	1	1	1	1	0	0
Uzbekistan	UZ	118	0	0	1	0	0	0	0
Viet Nam	VN	258	0	0	0	1	0	3	0
OECD	QM	-	2	2	0	0	1	0	2
Total		**29,250**	**257**	**218**	**56**	**193**	**196**	**273**	**1,522**

* Automatic contribution from UPOV e-PVP Administration Module.

[End of Annex II and of document]