

Meeting on Electronic Applications**EAM/4/3****Fourth meeting
Geneva, October 22, 2024****Original:** English
Date: September 23, 2024**UPOV PRISMA***Document prepared by the Office of the Union**Disclaimer: this document does not represent UPOV policies or guidance***EXECUTIVE SUMMARY**

1. The purpose of this document is to report on the following developments and plans concerning UPOV PRISMA. In 2023, the volume of application data transferred via UPOV PRISMA amounted to 1,873, marking a 1.78% decrease compared to 2022. Notably, the United Kingdom received the highest number of applications, with 1,562 applications received in 2023 and 1,557 in 2022.

2. Scheduled for April 2024, Version 2.10 is set for release, featuring the addition of two new authorities: Ghana and the United Republic of Tanzania, and the extension of crop coverage for four authorities: China, Morocco, Serbia and the United States of America. Responding to user feedback from the UPOV PRISMA Task Force, development is underway for Version 3.0, planned for release in 2025.

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Authority		Number of submissions in UPOV PRISMA in:						Total number of submissions in UPOV PRISMA (as of end 2023)
		2017	2018	2019	2020	2021	2022	
Tunisia	TN		2	4		1		7
Türkiye	TR		6	23	54	65	63	57
United Kingdom	GB		3	18	22	2,138	1,557	1,562
United States of America	US		6	1	3	5	26	18
Uruguay	UY					6		6
Viet Nam	VN							1
Total:	36	14	77	219	222	2,509	1,907	1,873

**Until required information is provided, applicants will not be able to submit application data*

LAUNCH OF VERSION 2.10 (SEPTEMBER 2024)

5. UPOV PRISMA Version 2.10, incorporating the following developments, was deployed on September 3, 2024.

Crop coverage

6. In Version 2.10, the following new UPOV Technical Questionnaires (TQs) have been added in UPOV PRISMA and applied to those UPOV members using UPOV TQ¹ or UPOV TG characteristics².

Common Name	UPOV TG
Hardy Geranium, Crane's Bill	TG/330/1
Calendula	TG/331/1
Black Walnut	TG/332/1 Corr.
Gazania	TG/333/1
Ranunculus	TG/334/1
Brown Mustard	TG/335/1
Coreopsis	TG/336/1
Pistachio	TG/337/1
Physic Nut	TG/338/1
Zinnia	TG/339/1
Oxypetalum	TG/340/1

7. In Version 2.10, the following UPOV TQs have been revised in UPOV PRISMA and applied to those UPOV members using UPOV TQ¹ or UPOV TG characteristics².

Common Name	UPOV TG
Wheat	TG/3/12 Rev.
Field Bean	TG/8/7
Lettuce	TG/13/11 Rev 2.
Apple Fruit Varieties	TG/14/10
Barley	TG/19/11
Oats	TG/20/11
Freesia	TG/27/7
Alstroemeria	TG/29/8
Radish; Black Radish	TG/63/7-TG/64/7 Rev.2
Pepper	TG/76/8 Rev. 2
Japanese plum	TG/84/4 Corr. 2 Rev. 2
Cotton	TG/88/7

¹ African Intellectual Property Organization (OAPI), Argentina (Wheat, Barely, Black Radish, Pepper, Cotton, Witloof Chicory, Papaya), Chile, China (Lettuce), Colombia, Costa Rica, Dominican Republic, Ecuador, France, Georgia (Wheat, Field Bean, Barley, Oats, Blueberry), Kenya, Morocco (Blueberry), Netherlands (Kingdom of the), New Zealand, Republic of Korea (Lettuce), Republic of Moldova (Wheat, Lettuce, Oats, Pepper), Saint Vincent and the Grenadines, Serbia (Blueberry), South Africa, Sweden, Switzerland, Tunisia, Türkiye, United Kingdom, Viet Nam.

² Australia, European Union, Mexico, Norway, Peru, United States of America, Uruguay.

Common Name	UPOV TG
Macadamia	TG/111/4
Mango	TG/112/4 Corr.
Chestnut	TG/124/4
Broccoli, Calabrese, Sprouting Broccoli, Winter broccoli	TG/151/5 Rev.
Leaf Chicory	TG/154/4 Rev. Corr.
Witloof, Chicory	TG/173/4
Guzmania	TG/182/4
Fennel	TG/183/4
Artichoke, Cardoon	TG/184/4 Rev.
Lavendula, Lavendar	TG/194/1 Rev.
Petunia	TG/212/2
Agaricus	TG/259/2
Papaya, Pawpaw	TG/264/2
Urochloa	TG/322/1 Corr.
Blueberry	TG/137/5 Rev.
Portulaca	TG/242/2
Triticale	TG/121/4
Red Clover	TG/5/8
Thimoty	TG/34/7
Lagerstroemia	TG/95/4
Hydrangea	TG/133/5
Chickpea	TG/143/5
Tea	TG/238/2
Turnip	TG/37/11
Berberis	TG/68/4
Apricot	TG/70/5
Eustoma	TG/197/2
Echinacea	TG/281/2
Banana	TG/123/4

8. In Version 2.10, the coverage for Morocco will be increased as follows:

Common Name	Botanical Name	UPOV TG
French Bean	Phaseolus vulgaris L.	TG/12/9 Rev.2
Hot pepper	Capsicum annuum L.	TG/76/8
Lettuce	Lactuca sativa L.	TG/13/11 Rev.
Squash	Cucurbita pepo L.	TG/119/4 Corr.2
Tomato	Solanum lycopersicum L.	TG/44/11

9. In Version 2.10, the coverage for Serbia has been increased to include lettuce (*Lactuca sativa* L.), maize (*Zea mays* L.) and potato (*Solanum tuberosum* L.).

10. In Version 2.10, the coverage for the United States of America has been increased to cover all crops and species.

11. A full list of the crop coverage can be found in the UPOV PRISMA webpage: <https://www.upov.int/upovprisma>.

12. In a second phase of Version 2.10 planned in October 2024, it is anticipated to expand the coverage of China:

Common Name	Botanical Name	UPOV TG
Soya bean	Glycine max (L.) Merrill	TG/80/7
Kiwifruit	Actinidia Lindl.	TG/98/7 Rev.2
Sunflower	Helianthus annuus L.	TG/81/7
Tomato	Solanum lycopersicum L.	TG/44/11 Rev.3
Hot pepper	Capsicum annuum L	TG/76/8
Anthurium	Anthurium Schott	TG/86/6
Guzmania	Guzmania Ruiz et Pav.	TG/182/4
Cucumber	Cucumis sativus L.	TG/61/7 Rev.3
Melon	Cucumis melo L.	TG/104/5 Rev.2

Functionalities

13. To enhance PDF accessibility in line with WCAG 2.1 guidelines, both the title and language have been included in the document properties as of Version 2.10.

OTHER DEVELOPMENTS

IT Quality Software Audit

14. A code audit was organized to improve the quality of the UPOV PRISMA software, resulting in the following recommendations:

- (a) to implement best practices in terms of coding to avoid concurrency and performance issues;
- (b) to move to the cloud for a better resource management at infrastructure level and keep following the highest security standards;
- (c) to develop a dedicated configuration interface for a controlled management of the forms.

15. Recommendation (a) (best practices in terms of coding) was implemented in Version 2.8. A new tool to assess security at code level is used since Version 2.9.

16. Recommendations (b) (migration to the cloud) and (c) (development of a dedicated configuration interface) will be implemented in Version 3.0, subject to available resources.

17. After the deployment of Version 2.8, certain issues were reported by users. Those issues were not identified at the time of regression testing, mainly because the tests were made on test data and not on real data. In version 2.9, the automatic regression tests were performed on a copy of production data as agreed at the EAM/1 Meeting.

18. The deployment of version 2.10 was supported by automatic testing of the new integrated Test Guidelines.

19. In version 2.10, the database was migrated to the cloud as a first step of the full migration to the cloud.

20. Following the implementation of automated regression testing for form generation, it is planned to implement automated tests for all functionalities by the end of 2024 to expand the test coverage.

Improvement of user-friendliness of UPOV PRISMA

21. In order to improve the user-friendliness of UPOV PRISMA, consultations were organized with users to review certain current existing functionalities (copy functionality, assignment of roles) (see documents UPOV/EAF/17/3 "Report", paragraph 22, and UPOV/EAF/18/3 "Report", paragraphs 15 and 16).

22. Participants in the UPOV PRISMA Task Force Group were consulted on the proposals made to improve the interface and the navigation through the system.

23. Two design thinking workshops on user management were organized on December 4 and 7, 2023. After an online consultation, a final version was presented on January 30, 2024. The result of the workshops is being implemented and will be evaluated during a specific test campaign.
24. During the UPOV PRISMA Task Force meeting on May 15, 2024, the Office of the Union gave a summary of the progress of updating the PVP office procedure. 84% of the procedures have been updated.
25. The participating authorities have been requested to provide information about their national fees and whether or not those fees are subsidized. A Summary of the outcome is presented in the Annex.
26. It is proposed to include information on national fees as a new section in the PVP Office Procedure.
27. A finance-related information session was held on June 12, 2024, to address frequent finance-related questions that UPOV PRISMA mailbox receives. There were 22 UPOV PRISMA users who attended the session.
28. New videos and a dedicated webpage have been developed to guide the user through the payment process.
29. In addition, to address the challenges that discourage some applicants from using UPOV PRISMA when filing applications, one-to-one meetings were organized with two authorities of the top 5 receiving application data from UPOV PRISMA, namely Canada and South Africa.
31. The following possibilities were discussed:
1. Whether or not it is possible to make UPOV PRISMA mandatory: the main challenge is how to convince the applicants to add the extra UPOV fees to their costs. What are the incentives of doing that from applicant and PVP office perspective?
 2. Whether or not to add National Listing in the coverage
 3. Raise awareness of UPOV PRISMA: it is suggested to arrange joint information sessions with the authority focal points, UPOV PRISMA users and local agents. The time will be decided jointly and will be communicated to all interested parties.

Form Synchronization

30. UPOV PRISMA ought to ensure that the most recent versions of its forms are accessible, thereby ensuring that the data submitted in applications is complete and mitigating the need for revisions due to any missing information.
31. Maintaining up-to-date synchronization between the PVP Offices and their most recent forms is essential. Therefore, it is advised to promptly inform the UPOV PRISMA Team of any alterations in application forms or national technical questionnaires once implemented. Additionally, an annual verification with UPOV PRISMA focal points is recommended to ensure the application forms in UPOV PRISMA are up to date.
32. In order to achieve and maintain synchronization of TQs between UPOV PRISMA and CPVO, the following projects have been agreed with CPVO:
- Project 1: "Audit" (current issues/ states of affairs) for exchange of data between UPOV PRISMA and CPVO in both directions (Status: completed);
 - Project 2: Part A: Resolving current issues; Part B: Synchronizing changes by UPOV/CPVO (Status: ongoing on the basis of information provided in Project 1);
 - Project 3: Implementation of Project 2 outcome: Bi-directional exchange of application data (lettuce, tomato, rose) (Status: ongoing on the basis of information provided in Project 1);
 - Project 4: Bulk upload of Maize applications from UPOV to CPVO (Status: ongoing on the basis of information provided in Project 1); and
 - Project 5: "Transitional arrangements", to communicate to applicants about the situations in which they can use UPOV PRISMA for applications at the CPVO and the measures that need to be taken until all issues have been resolved (Status: ongoing).

33. CPVO and UPOV are discussing the timelines in relation to the above projects taking into account the available resources. The agreed timelines will be presented at the EAM/5 Meeting.

34. For PVP Offices that use UPOV Technical Questionnaires, keeping the TQ forms up to date is UPOV's responsibility. In version 2.10, various TQ forms have been revised to align with the most current version available.

35. To ensure the TQ forms are updated promptly following the publication of a Test Guidelines (TG), we suggest adhering to the following procedure:

- After the Technical Committee (TC) adopts a TG, the UPOV PRISMA Team will distribute the necessary translations to the PVP Offices charged with handling each non-UPOV language.
- Some four months later, upon the publication of the TG, the respective TQ will become accessible in all the languages provided.
- Should a PVP Office be unable to complete the translation, it is expected that they would agree to use the English version.

PLANS FOR VERSION 3.0

Release of Version 3.0

36. It is planned to release Version 3.0 of UPOV PRISMA in March 2025.

Crop Coverage

China:

Morchella	Morchella Dill. ex Pers.	National TG
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Morocco:

Tomato Rootstocks	Solanum habrochaites S. Knapp & D.M. Spooner; Solanum lycopersicum L. x Solanum habrochaites S. Knapp & D.M. Spooner; Solanum lycopersicum L. x Solanum peruvianum (L.) Mill.; Solanum lycopersicum L. x Solanum cheesmaniae (L. Ridley) Fosberg; Solanum pimpinellifolium L. x Solanum habrochaites S. Knapp & D.M. Spooner	TG/294/1 Rev.3
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37. The coverage for Serbia will be increased to include sunflower (*Helianthus annuus* L.).

Functionalities

38. The following functionalities are planned to being introduced in Version 3.0:

- (a) Migration of UPOV PRISMA to the cloud;
- (b) Bulk invoice upon request;
- (c) Notification/alert when a change is made to the application form or the technical questionnaire of the United Kingdom;
- (d) Restriction on the selection of crops for National listing according to the list provided by the authority: (United Kingdom and Netherlands (Kingdom of the));
- (e) PDF accessibility: all elements should be tagged and follow a proper reading order;
- (f) Implement the new screen design for Start New Application and Copy Application;
- (g) Improve user management functionality;
- (h) Add a "floating" menu for chapters in the generated form page; and

- (i) Bulk upload improvements:
1. fix pending issues: stage, language, dropdown validation,
 2. simplify the template: reuse of applicant/breeder/agent correspondence address,
 3. add the possibility to use Purdy's notation for hybrids,
 4. implement validation after upload to minimize errors.

POSSIBLE FUTURE DEVELOPMENTS

User-friendliness of the tool

39. It was agreed at the EAF/19 meeting that the following elements would be considered to increase the user-friendliness of UPOV PRISMA:

- Addition of non-UPOV TQ characteristics in TQ Section 7 instead of TQ Section 5 (see document EAF/17/3 "Report", paragraph 19); and
- Crop-specific TQs beyond Test Guidelines (see document EAF/16/3 "Report", paragraph 18).

New functionalities

40. The following new functionalities will be considered for possible development:

- Bulk Upload for Maize (United Kingdom); and
- Machine translation (see document EAF/16/3 "Report", paragraph 18).

[Annex follows]

APPLICATION FEES OF UPOV PRISMA PARTICIPATING UPOV MEMBERS

UPOV member	Fee subsidized by the government	Application Fees in original currency	Application Fees in Swiss francs ³	% increase when UPOV PRISMA fee (90 Swiss francs) is added
African Intellectual Property Organization (OAPI)	NO	590000 FCFA	864.98	10%
Argentina				
Australia	NO	345 AUD	206.17	44%
Bolivia (Plurinational State of)				
Canada	NO	287.22 CAD	188.33	48%
Chile	NO	503.7 USD	451.82	20%
China	YES	0 CNY	0.00	undefined
Colombia	NO	1653000 COP	359.45	25%
Costa Rica	NO	550 USD	493.35	18%
Dominican Republic	NO	8000 DOP	121.63	74%
Ecuador	YES	992.15 / 1240.19 USD	1001.20	9%
European Union	NO	450 euros (online)	432.64	21%
France	NO	100 euros	96.14	94%
Georgia		GEL		
Kenya		200 USD	179.40	50%
Mexico	NO/YES	22480 MXN	1098.29	8%
Morocco	NO	500 MAD	45.18	199%
Netherlands (Kingdom of the)	NO	539 EUR	518.20	17%

UPOV member	Fee subsidized by the government	Application Fees in original currency	Application Fees in Swiss francs	% increase when UPOV PRISMA fee (90 Swiss francs) is added
New Zealand	NO	625 NZD	342.05	26%
Norway	NO	1705 NOK	143.75	63%
Paraguay	NO	476710 PYG	56.78	159%
Peru	NO	390.50 PEN	91.84	98%
Republic of Moldova	YES	200 EUR	192.28	47%
Republic of Korea	NO	38000 KRW	24.60	366%
Saint Vincent and the Grenadines				
Serbia	NO	8380 RSD	68.88	31%
South Africa	NO	3308 ZAR	160.91	56%
Sweden	NO	3000 SEK	254.18	35%
Switzerland				
Trinidad and Tobago	NO	1000 TTD	132.75	68%
Tunisia	NO	250 TND	71.55	126%
Türkiye	NO	7778.5 TRY	212.41	42%
United Kingdom	NO	598 GBP	678.99	13%
Uruguay	NO	110 USD	98.67	91%
USDA (United States)	NO	5150 USD	4619.55	2%
Viet Nam	NO	2000000 VND	70.48	128%

[End of Annex and of document]

³ The UN Operational Rates of Exchange for July 2024 are used to calculate the amount in CHF.