UPOV

International Union for the Protection of New Varieties of Plants

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Administrative and Legal Committee

CAJ/76/7

Seventy-Sixth Session
Geneva, October 30, 2019

Original: English
Date: August 26, 2019

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 provide an update on developments concerning UPOV Codes; and the PLUTO database.

2.   The Administrative and Legal Committee (CAJ) is invited to:

        (a)   note that 171 new UPOV codes were created in 2019, to August 6, 2019, and a total of 9,012 UPOV codes are included in the GENIE database;

        (b)   consider the proposed revision of Section 3.1.3 of the "Program for improvements to the PLUTO database" concerning the character set for data, as provided in Annex I to this document; and

        (c)   note the summary of contributions to the PLUTO database from 2015 to 2019 and the current situation of members of the Union on data contribution, as presented in Annex II to this document.

3.   The structure of this document is as follows:

4.   The following abbreviations are used in this document:

        CAJ: Administrative and Legal Committee
        TC: Technical Committee
        WG-DEN: Working Group on Variety Denominations

UPOV CODE SYSTEM

Guide to the UPOV Code System

5.	The "Guide to the UPOV Code System" is available on the UPOV website (see http://www.upov.int/genie/resources/pdfs/upov_code_system_en.pdf).

UPOV code developments

6.	In 2019, to August 6, 2019, 171 new UPOV codes were created. The total number of UPOV codes in the GENIE database as of August 6, 2019 was 9,012.

	Year									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 (to August 6)
New UPOV codes	114	173	212	209	577	188	173	440	242	171
Amendments	6	12	5	47*	37	11	16	1	5	0
Total UPOV Codes	6,683	6,851	7,061	7,251	7,808	7,992	8,149	8,589	8,844	9,012

*	including changes to UPOV codes resulting from the amendment of the "Guide to the UPOV Code System" concerning hybrids (see document TC/49/6).

*7.	The CAJ is invited to note that 171 new UPOV codes were created in 2019, to August 6, 2019, and a total of 9,012 UPOV codes are included in the GENIE database.*

PLUTO DATABASE

Program for improvements to the PLUTO database

8.	The CAJ, at its sixty-eighth session[1], considered document CAJ/68/6 "UPOV information databases" and approved the amendments to the Program for improvements to the PLUTO database ("Program") as set out in document CAJ/68/6, Annex II, subject to certain further amendments agreed at that session[2].

9.	The program reflecting amendments approved at previous sessions is available in document CAJ/69/6 "UPOV Information Databases", Annex I.

10.	The Working Group on Variety Denominations (WG-DEN), at its fifth meeting[3], agreed[4]:

	(a)	to accept accents and special characters in denominations in the PLUTO database while noting that the denomination search tool on the PLUTO database would only use the character set ASCII representation, as defined in ISO Standard 646;

	(b)	to revise the "Program for Improvements to the Plant Variety Database", Section 3.1.3 in order to change the acceptable character set to ISO/IEC Standard 8859 1: 1998.

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[1]	Held in Geneva on October 21, 2013.

[2]	See document CAJ/68/10 "Report on the Conclusions", paragraphs 23 to 26.

[3]	Held in Geneva on October 30, 2018.

[4]	See document UPOV/WG-DEN/5/3 "Report", paragraph 30 (a) and (b).

11.   On the above basis, the CAJ is invited to consider the proposed revision of the Section 3.1.3 of the "Program for improvements to the PLUTO database" concerning the character set for data, as provided in Annex I to this document.

12.   Annex II to this document provides a summary of the contributions to the PLUTO database from 2015 to 2018 and the current situation of members of the Union on data contribution.

Search tools

13.   Matters concerning the possible development of a similarity search tool for variety denomination purposes are reported in document CAJ/76/6 "Variety Denominations".

Content of the PLUTO database

14.   Matters concerning content of the PLUTO database are reported in document CAJ/76/6 "Variety Denominations".

15.   The CAJ is invited to:

(a)   consider the proposed revision of Section 3.1.3 of the "Program for improvements to the PLUTO database" concerning the character set for data, as provided in Annex I to this document; and

(b)   note the summary of contributions to the PLUTO database from 2015 to 2019 and the current situation of members of the Union on data contribution, as presented in Annex II to this document.

[Annexes follow]

PROPOSED AMENDMENTS TO THE PROGRAM FOR IMPROVEMENTS
TO THE PLANT VARIETY DATABASE[5]

> ### Note for Draft revision
>
> **Strikethrough (highlighted in grey)** indicates deletion from the text of the "Program for improvements to the PLUTO database".
>
> **Underlining (highlighted in grey)** indicates insertion to from the text of the "Program for improvements to the PLUTO database".

1.   Title of the Plant Variety Database

The name of the Plant Variety Database is the "PLUTO database" (PLUTO = **PL**ant varieties in the **U**POV system: **T**he **O**mnibus).

2.   Provision of assistance to contributors

2.1   The PLUTO database administrator[6] will continue to contact all members of the Union and contributors to the PLUTO database that do not provide data for the PLUTO database, do not provide data on a regular basis, or do not provide data with UPOV codes. In each case, they will be invited to explain the type of assistance that would enable them to provide regular and complete data for the PLUTO database.

2.2   In response to the needs identified by members of the Union and contributors to the PLUTO database in 2.1, the PLUTO database administrator will seek to develop solutions for each of the PLUTO database contributors.

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

2.4   With regard to the assistance to be provided to contributors, the PLUTO database "General Notice and Disclaimer" states that "[…] All contributors to the PLUTO database are responsible for the correctness and completeness of the data they supply. […]". Thus, in cases where assistance is provided to contributors, the contributor will continue to be responsible for the correctness and completeness of the data. In cases where the PLUTO database administrator is requested by the contributor to allocate UPOV codes, or where it is considered to be appropriate to amend a UPOV code allocated by the contributor, the PLUTO database administrator will make proposals for approval by the contributor. In the absence of responses within the designated time, the proposed UPOV codes will be used in the PLUTO database. Where the contributor subsequently notifies the PLUTO database administrator of a need for correction, the correction will be made at the first opportunity, in accordance with Section 4 "Frequency of data updating"

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[5]   As approved by the CAJ, at its fifty-ninth session, held in Geneva on April 2, 2009, and amended by the CAJ at its sixty-fifth session, held in Geneva on March 21, 2012, and at its sixty-eighth session, held in Geneva on October 21, 2013.

[6]   At its seventy-sixth session, held in Geneva on October 29, 2008, the Consultative Committee, approved an arrangement between UPOV and the World Intellectual Property Organization (WIPO) (UPOV-WIPO arrangement), concerning the UPOV Plant Variety Database, as follows:

"(a) WIPO to undertake the collation of data for the UPOV-ROM and to provide the necessary assistance to deliver the program of improvements concerning, in particular, options for receiving data for the UPOV-ROM in various formats and assistance in allocating UPOV codes to all entries (see documents CAJ/57/6, paragraphs 3 and 8 and TC/44/6, paragraphs 12 and 17). In addition, WIPO to undertake the development of a web-based version of the UPOV Plant Variety Database, and the facility to create CD-ROM versions of that database, and to provide the necessary technical support concerning the development of a common search platform (see documents CAJ/57/6, paragraphs 18 to 21 and TC/44/6, paragraphs 27 to 30)).

"(b) UPOV to agree that data in the UPOV-ROM Plant Variety Database may be included in the WIPO Patentscope® search service. In the case of data provided by parties other than members of the Union (e.g. the Organisation for Economic Co-operation and Development (OECD)), permission for the data to be used in the WIPO Patentscope® search service would be a matter for the parties concerned."

3.   Data to be included in the PLUTO database

    3.1   Data format

3.1.1 In particular, the following data format options to be developed for contributing data to the PLUTO database:

    (a)   data in XML format;

    (b)   data in Excel spreadsheets or Word tables;

    (c)   data contribution by on-line web form;

    (d)   an option for contributors to provide only new or amended data

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

3.1.3 Subject to Section 3.1.4, the character set for data shall be the ~~Extended~~ ASCII [American Standard Code for Information Interchange] representation, as defined in ISO [International Standards Organization]/IEC [International Electrotechnical Commission] Standard 8859 1: 1998 ~~646.   Special characters, symbols or accents (˜, ˆ, ¨, º, etc.) are not accepted. Only characters of the English alphabet may be used~~.

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

    3.2   Data quality and completeness

The following data requirements to be introduced in the PLUTO database

TAG	Description of Item	Current Status	Proposed status	Database developments required
<000>	**Start of record and record status**	mandatory	**start of record to be mandatory**	mandatory, subject to development of facility to calculate record status (by comparison with previous data submission), if required
<190>	**Country or organization providing information**	mandatory	**mandatory**	data quality check: to verify against list of codes
<010>	**Type of record and (variety) identifier**	mandatory	**both mandatory**	(i) meaning of "(variety) identifier" to be clarified in relation to item <210>; (ii) to review whether to continue type of record "BIL"; (iii) data quality check: to check against list of types of record
<500>	**Species--Latin name**	mandatory until UPOV code provided	**mandatory (even if UPOV code provided)**	
<509>	Species--common name in English	mandatory if no common name in national language (<510>) is given.	not mandatory	
<510>	Species--common name in national language other than English	mandatory if no English common name (<509>) is given	REQUIRED if <520> is provided	
<520>	Species--common name in national language other than English in non-Roman alphabet		not mandatory	

TAG	Description of Item	Current Status	Proposed status	Database developments required
<511>	**Species--UPOV Taxon Code**	mandatory	**mandatory**	(i) if requested, the PLUTO database administrator to provide assistance to the contributor for allocating UPOV codes; (ii) data quality check: to check UPOV codes against the list of UPOV codes; (iii) data quality check: to check for seemingly erroneous allocation of UPOV codes (e.g. wrong code for species)
DENOMINATIONS				
<540>	**Date + denomination, proposed, first appearance or first entry in data base**	mandatory if no breeder's reference (<600>) is given	**(i) mandatory to have <540>, <541>, <542>, or <543> if <600> is not provided** (ii) date not mandatory (iii) REQUIRED if <550>, <551>, <552> or <553> are provided	(i) to clarify meaning and rename; (ii) data quality check: mandatory condition in relation to other items
<550>	Date + denomination, proposed, first appearance or first entry in data base in non-Roman alphabet		not mandatory	
<541>	**Date + proposed denomination, published**		**see <540>**	(i) to clarify meaning and rename (ii) data quality check: mandatory condition in relation to other items
<551>	Date + proposed denomination, published in non-Roman alphabet		not mandatory	
<542>	**Date + denomination, approved**	mandatory if protected or listed	**see <540>**	(i) to clarify meaning and rename; (ii) to allow for more than one approved denomination for a variety (i.e. where a denomination is approved but then replaced) (iii) data quality check: mandatory condition in relation to other items
<552>	Date + denomination, approved in non-Roman alphabet		not mandatory	
<543>	**Date + denomination, rejected or withdrawn**		**see <540>**	(i) to clarify meaning and rename (ii) data quality check: mandatory condition in relation to other items
<553>	Date + denomination, rejected or withdrawn in non-Roman alphabet		not mandatory	
<600>	Breeder's reference	mandatory if existing	REQUIRED if <650> is provided	
<650>	Breeder's reference in non-Roman alphabet		not mandatory	
<601>	Synonym of variety denomination		REQUIRED if <651> is provided	
<651>	Synonym of variety denomination in non-Roman alphabet		not mandatory	
<602>	Trade name		REQUIRED if <652> is provided	(i) to clarify meaning (ii) to allow multiple entries
<652>	Trade name in non-Roman alphabet		not mandatory	
<210>	**Application number**	mandatory if application exists	**mandatory if application exists**	to be considered in conjunction with <010>
<220>	Application/filing date	mandatory if application exists	**mandatory**	explanation to be provided if TAG<220> not completed

TAG	Description of Item	Current Status	Proposed status	Database developments required
<400>	Publication date of data regarding the application (protection)/filing (listing)		not mandatory	
<111>	**Grant number (protection)/registration number (listing)**	mandatory if existing	**(i) mandatory to have <111> / <151> / <610> or <620> if granted or registered** (ii) date not mandatory	(i) data quality check: mandatory condition in relation to other items; (ii) to resolve any inconsistencies concerning the status of TAG<220>
<151>	**Publication date of data regarding the grant (protection) / registration (listing)**		**see <111>**	data quality check: mandatory condition in relation to other items
<610>	**Start date--grant (protection)/registration (listing)**	mandatory if existing	**see <111>**	(i) data quality check: mandatory condition in relation to other items; (ii) data quality check: date cannot be earlier than <220>
<620>	**Start date--renewal of registration (listing)**		**see <111>**	(i) data quality check: mandatory condition in relation to other items: (ii) data quality check: date cannot be earlier than <610> (iii) to clarify meaning
<665>	Calculated future expiration date	mandatory if grant/listing	not mandatory	
<666>	Type of date followed by "End date"	mandatory if existing	not mandatory	
PARTIES CONCERNED				
<730>	**Applicant's name**	mandatory if application exists	**mandatory if application exists or** REQUIRED if <750> is provided	
<750>	Applicant's name in non-Roman alphabet		Not mandatory	
<731>	**Breeder's name**	mandatory	**mandatory**	to clarify meaning of "breeder" according to document TGP/5 (see <733>)
<751>	Breeder's name in non-Roman alphabet		Not mandatory	
<732>	Maintainer's name	mandatory if listed	REQUIRED if <752> is provided	to be accompanied by start and end date (maintainer can change)
<752>	Maintainer's name in non-Roman alphabet		Not mandatory	
<733>	**Title holder's name**	mandatory if protected	**mandatory if protected or** REQUIRED if <753> is provided	(i) to clarify meaning of "title holder" according to document TGP/5 (see <731>) (ii) to be accompanied by start and end date (title holder can change)
<753>	Title holder's name in non-Roman alphabet		Not mandatory	
<740>	Type of other party followed by party's name		REQUIRED if <760> is provided	
<760>	Type of other party followed by party's name in non-Roman alphabet		not mandatory	
INFORMATION REGARDING EQUIVALENT APPLICATIONS IN OTHER TERRITORIES				
<300>	Priority application: country, type of record, date of application, application number		not mandatory	
<310>	Other applications: country, type of record, date of application, application number		not mandatory	

TAG	Description of Item	Current Status	Proposed status	Database developments required
<320>	Other countries: Country, denomination if different from denomination in application		not mandatory	
<330>	Other countries: Country, breeder's reference if different from breeder's reference in application		not mandatory	
<900>	Other relevant information (phrase indexed)		REQUIRED if <950> is provided	
<950>	Other relevant information (phrase indexed) in non-Roman alphabet		not mandatory	
<910>	Remarks (word indexed)		REQUIRED if <960> is provided	
<960>	Remarks (word indexed) in non-Roman alphabet		not mandatory	
<920>	Tags of items of information which have changed since last transmission (optional)		not mandatory	to develop option to generate automatically (see 2.1.1.(a))
<998>	FIG		not mandatory	
<999>	Image identifier (for future use)		not mandatory	to create possibility to provide hyperlink to image (e.g. an authority's webpage)
DATES OF COMMERCIALIZATION				
<800>	Commercialization dates		not mandatory	

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

3.3 Mandatory and required "items"

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

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

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

3.4 Dates of commercialization

3.4.1 An item has been created in the PLUTO database to allow for information to be provided on dates on which a variety was commercialized for the first time in the territory of application and other territories, on the following basis:

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

	Comment
(i)　　Authority providing the [following] information	ISO two letter code
(ii)　　Territory of commercialization	ISO two letter code

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

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

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

4.   Frequency of data submission

Contributors will be encouraged to provide data as soon as practical after it is published by the authority(ies) concerned. The PLUTO database will be updated with new data as quickly as possible after receipt, in accordance with the uploading procedure. The PLUTO database can, as necessary, be updated with corrected data, in accordance with the uploading procedure.

5.   Disclaimer

5.1   The following disclaimer appears on the PLUTO page of the UPOV website:

"The data currently in the Plant Variety Database (PLUTO database) was last updated on [dd/mm/yyyy].

"To continue to the PLUTO page, you must first acknowledge the following disclaimer.

"Please note that the information concerning plant breeders' rights provided in the PLUTO database does not constitute the official publication of the authorities concerned. To consult the official publication, or to obtain details on the status and completeness of the information in the PLUTO database, please contact the relevant   authority,   contact   details   for   which   are   provided   at https://www.upov.int/members/en/pvp_offices.html.

"All contributors to the PLUTO database are responsible for the correctness and completeness of the data they supply. Users are particularly requested to note that it is not obligatory for members of the Union to supply data for the PLUTO database and, for those members of the Union who supply data, it is not obligatory to supply data for all items."

5.2   The following disclaimer appears with reports generated by the PLUTO database:

"The data in this report was generated from the PLUTO database on [dd/mm/yyyy].

"Please note that the information concerning plant breeders' rights provided in the PLUTO database does not constitute the official publication of the authorities concerned. To consult the official publication, or to obtain details on the status and completeness of the information in the PLUTO database, please contact the relevant   authority,   contact   details   for   which   are   provided   at https://www.upov.int/members/en/pvp_offices.html.

"All contributors to the PLUTO database are responsible for the correctness and completeness of the data they supply. Users are particularly requested to note that it is not obligatory for members of the Union to supply data for the PLUTO database and, for those members of the Union who supply data, it is not obligatory to supply data for all items."

6.   Common search platform

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

[Annex II follows]

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

Contributor	Number of applications for PBR in 2017	Number of new data submissions to PLUTO in 2015	Number of new data submissions to PLUTO in 2016	Number of new data submissions to PLUTO in 2017	Number of new data submissions to PLUTO in 2018	Number of new data submissions to PLUTO in 2019 (to August 6)	Situation at August 6, 2019
African Intellectual Property Organization	4	0	0	0	0	0	A reminder e-mail with instructions for contribution was sent in July 2019, following receipt of incomplete data.
Albania	0 (2016)	1	1	0	0	0	Latest data under preparation.
Argentina	299	0	1	0	0	0	A reminder e-mail was sent in August 2019.
Australia	343	5	7	5	22	11	
*Austria	0	3	4	4	5	4	
Azerbaijan	19 (2014)	0	0	0	0	0	A reminder e-mail was sent in July 2019.
Belarus	33	0	1	0	0	0	A reminder e-mail was sent in July 2019.
*Belgium	3	6	5	3	5	4	
Bolivia (Plurinational State of)	13	0	1	1	0	0	A reminder e-mail was sent in August 2019.
Bosnia and Herzegovina	0	n.a.	n.a.	0	0	0	Data under preparation.
Brazil	339	3	0	3	5	7	
*Bulgaria	48	12	6	3	4	7	
Canada	310	7	11	11	10	8	
Chile	115	4	6	5	7	5	
China	4,465	2	1	1	0	0	A reminder e-mail was sent in July 2019.
Colombia	124	0	0	2	0	0	A reminder e-mail was sent in July 2019.
Costa Rica	5	1	3	2	1	5	
*Croatia	13	3	2	2	2	1	
*Czech Republic	57	3	6	9	6	5	
*Denmark	7	12	11	10	7	8	
Dominican Republic	5 (2009)	0	0	0	0	0	A reminder e-mail was sent in July 2019.

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*   Data provided via the CPVO.

Contributor	Number of applications for PBR in 2017	Number of new data submissions to PLUTO in 2015	Number of new data submissions to PLUTO in 2016	Number of new data submissions to PLUTO in 2017	Number of new data submissions to PLUTO in 2018	Number of new data submissions to PLUTO in 2019 (to August 6)	Situation at August 6, 2019
Ecuador	81	0	0	1	1	0	A reminder e-mail was sent in August 2019.
*Estonia	10	9	3	3	9	5	
*European Union	3,422	10	13	7	11	5	
*Finland	14	2	2	2	3	1	
*France	158	13	11	8	8	9	
Georgia	17	0	2	0	2	0	A reminder e-mail was sent in August 2019.
*Germany	39	11	12	8	9	7	
*Hungary	16	16	19	14	11	12	
*Iceland	0 (2012)	0	0	0	0	0	
*Ireland	1	2	2	1	2	1	
Israel	53	1	1	1	0	7	
*Italy	5	8	6	6	3	3	
Japan	1,019	4	1	2	3	2	
Jordan	3 (2016)	0	1	0	0	0	A reminder e-mail was sent in July 2019.
Kenya	71	0	1	0	0	0	A reminder e-mail was sent in July 2019.
Kyrgyzstan	1	0	0	0	0	0	Latest data under preparation.
*Latvia	1	1	1	2	2	1	
*Lithuania	18	3	4	4	3	4	
Mexico	265	1	3	3	4	2	
Montenegro	n.a.	0	0	0	0	0	A reminder e-mail was sent in July 2019.
Morocco	101	2	0	0	0	0	Data under preparation.
*Netherlands	763	10	11	8	9	7	
New Zealand	135	6	5	6	6	4	
Nicaragua	22	0	0	0	0	0	Participated in the training course in 2015. A reminder e-mail was sent in July 2019.
North Macedonia	n.a.	0	0	0	0	0	Participated in the training course in 2014 and planned to submit data upon receipt of applications. A reminder e-mail was sent in July 2019.
*Norway	19	4	3	4	7	4	

Contributor	Number of applications for PBR in 2017	Number of new data submissions to PLUTO in 2015	Number of new data submissions to PLUTO in 2016	Number of new data submissions to PLUTO in 2017	Number of new data submissions to PLUTO in 2018	Number of new data submissions to PLUTO in 2019 (to August 6)	Situation at August 6, 2019
Oman	0 (2015)	0	0	2	0	0	A reminder e-mail was sent in July 2019.
Panama	3	0	1	1	0	0	A reminder e-mail was sent in August 2019.
Paraguay	62 (2016)	1	1	0	1	0	A reminder e-mail was sent in August 2019.
Peru	38	0	0	1	1	0	A reminder e-mail was sent in August 2019.
*Poland	110	3	5	7	3	3	
*Portugal	0	0	2	1	2	1	
Republic of Korea	748	0	1	0	1	3	
Republic of Moldova	30	3	3	1	2	7	
*Romania	38	4	4	4	4	3	
Russian Federation	807	5	5	5	4	2	
Serbia	66	3	4	2	4	0	A reminder e-mail was sent in August 2019.
Singapore	5	0	0	0	0	0	No data submitted. A reminder e-mail was sent in July 2019.
*Slovakia	8	4	5	6	4	3	
*Slovenia	0	5	5	3	4	3	
South Africa	268	0	1	2	2	4	
*Spain	40 (2016)	5	5	5	4	3	
*Sweden	4	11	12	11	9	6	
*Switzerland	75	6	5	6	3	5	
Trinidad and Tobago	0 (2016)	0	0	0	0	0	Participated in the training course in 2014. A reminder e-mail was sent in July 2019.
Tunisia	62 (2016)	0	0	0	0	0	A reminder e-mail was sent in July 2019.
*Turkey	216	1	3	0	2	1	
Ukraine	1,345	0	0	0	3	9	
*United Kingdom	183	11	13	10	12	7	
United Republic of Tanzania	40	0	0	0	0	0	A reminder e-mail was sent in July 2019.
United States of America	1,557	17	16	12	12	10	

Contributor	Number of applications for PBR in 2017	Number of new data submissions to PLUTO in 2015	Number of new data submissions to PLUTO in 2016	Number of new data submissions to PLUTO in 2017	Number of new data submissions to PLUTO in 2018	Number of new data submissions to PLUTO in 2019 (to August 6)	Situation at August 6, 2019
Uruguay	54	1	0	0	0	0	A reminder e-mail was sent in August 2019.
Uzbekistan	36	0	0	0	1	0	A reminder e-mail was sent in August 2019.
Viet Nam	266	0	0	0	0	0	Data under preparation.
OECD	-	0	2	2	2	1	

[Appendix follows]

PLUTO DATABASE COVERAGE

		Year				
		2015	2016	2017	2018	2019 (to August 6, 2019)
	Number of UPOV members that contributed to the PLUTO database for the indicated year[1]	61	59	54	49	43
	Percentage of UPOV members that contributed to the PLUTO database for the indicated year	82%	80%	72%	65%	57%
A	Total number of PVP applications[2]	15,017	16,455	18,306	n.a.	n.a.
B	Number of PVP applications accounted for by contributors to PLUTO database for indicated year[1,2]	14,823	16,095	17,410	n.a.	n.a.
C	Percentage of PVP applications accounted for by contributors to PLUTO database for indicated year (B/A)	99%	98%	95%	n.a.	n.a.
D	Number of PVP applications included in PLUTO database[3]	11,587	12,269	12,547	10,759	2,887
E	Percentage of PVP applications included in PLUTO database (D/A)	77%	75%	69%	n.a.	n.a.

Notes:
1. Contributors provide data for previous years. Therefore, a contributor providing data in, e.g. 2017, will be considered to have contributed data for 2015, 2016 and 2017.
2. See document C/52/7 Rev. "Plant variety protection statistics for the period 2013-2017 (Revision)".
3. Status of information in the PLUTO database at August 6, 2019

Row "C" provides an indication of the "theoretical" completeness of the PLUTO database on the basis of the UPOV members contributing data.

Row "E" provides an indication of the actual completeness of data in the PLUTO database, reflecting:
    (i)   UPOV members that do not contribute to the PLUTO database; and
    (ii)   contributors that have not provided complete data.

[End of Annex II and of document]