

**INFORMATION ON THE FORMAT FOR THE SUBMISSION OF DATA
FOR THE UPOV-ROM PLANT VARIETY DATABASE
INCLUDING ITS CONTROL PROGRAM**

This document contains the UPOV format for the transmission in electronic form of bibliographic data regarding plant varieties ([Annex I](#)) and its control program ([Annex II](#)).

Any data submitted for inclusion in the UPOV-ROM Database must be sent to UPOV in the format described in this document. It has been established to ensure that all data from different members of the Union can be included in one single database.

The software developed by the French firm JOUVE is adapted to that format and searches in the database will only run smoothly if all contributors sending data comply with the format. In order to check whether the format has been respected after the extraction of data from the national database, JOUVE has developed a Control Program which will enable most errors to be detected and will enable experts to eliminate errors before submitting the data to us. All contributors are requested to apply that program to their data before submitting it to the Office of UPOV.

After having sent data for the first time, offices are invited to study in particular their own data on the UPOV-ROM and check whether the corrections made by UPOV have modified the substance of the data in any way. Likewise, the data given for the country/organization in the detailed information and in the summary table of the content.pdf file should be checked. All these data will also be copied for the following production discs and any corrections and necessary updating is therefore appreciated. Unless there are numerous changes requiring the sending of a completely reworded text, changes marked in handwriting in the existing text are appreciated to facilitate changing the "content" file only where necessary.

The data should be sent to the Office of UPOV in one single document, preferably on a floppy disc or as an attachment to an e-mail, but any other mutually agreed carrier could do as well. For large amounts of data, standard compression programs (ARJ, PKZIP, etc.) can be used. The use of a program that creates a self-extracting file would be preferred. In a readme file on the disc and in a paper printout of the readme file added to your mailing the following should appear:

(a) the validity of the data submitted (e.g. date when extracted from the database);

(b) whether other information on the "content" file has changed for your country/organization. (For the first submission, the address(es) of the source of information and of the person to contact for questions and explanations on the data should be provided. Best examples for those explanations are the explanations given by other contributors and already on the UPOV-ROM disc in the [content.pdf](#) file.)

(c) the word processing system used for the readme file.

Any unresolved questions should be addressed to the Office of UPOV. For countries or organizations supplying data for the first time, supply on a trial basis with a limited amount of data in the new format is welcomed. The data would then be checked by us to ascertain whether the format has been understood before requesting the full data set.

[Two annexes follow]

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UPOV-ROM PLANT VARIETY DATABASE

FORMAT FOR THE TRANSMISSION IN ELECTRONIC FORM OF BIBLIOGRAPHIC DATA REGARDING PLANT VARIETIES

INTRODUCTION

1. This document describes the format for electronic transmission of plant variety information.
2. The main aim is to provide a simple and flexible format to cope with the varied circumstances of different national offices or organizations for transmitting information to a central place for the purposes of collecting the information and publishing it in the form of a CD-ROM (Compact Disc Read Only Memory) and for similar purposes.

DEFINITIONS

3. For the purposes of this document, the following definitions apply:
 - (a) Object: One variety in terms of PBR, PLP, PAT, NLI, BIL or other lists of a country or international organization (ZZZ). (For the [explanations on the abbreviations](#), see page 12.)
 - (b) Item of information: A piece of information concerning an object.
 - (c) Identifier of the object: A code or string of characters which uniquely identify the object. Each country or organization should assign a unique identifier to each variety within the country or organization. If it is unable to do so for the time being, it should inform the Office of UPOV.
 - (d) Description of an object: A description containing the up-to-date value of each available individual item of information.
 - (e) Transmission of information: A transfer of a file, from a country or organization, containing validated information on the description of the objects at the date specified by the country or organization.
 - (f) File: A collection of records placed on a machine-readable carrier.
 - (g) Record: A unit in a file describing an object. It contains the identifier, the description and the status of the object.
 - (h) Record status: A statement whether the record is new, whether one or more items of information have changed since the last transmission of data, or whether the record is unchanged. The status unknown should be avoided as far as possible.

IDENTIFICATION OF ITEMS OF INFORMATION

4. For ease of processing files and selecting information, each item of information must be preceded by a code which identifies what the item represents. The code is a three digit number and is preceded by the character < and followed by the character >. That code is called a TAG. Page 11 sets forth the codes to be used.

5. An example of how an item of information should appear in a record with its identification code is as follows:

```
<500>GERBERA CASS  
<220>19930716
```

Here the Latin name has the identification code 500. Information is also provided on the date of application (code 220).

STRUCTURE OF INDIVIDUAL RECORDS

6. Individual records should be structured as follows:

```
<000>    start of record and record status  
<190>    country/organization providing information  
<010>    type of record and (variety) identifier  
<NNN>    item of information  
<NNN>    item of information  
<920>    items of information which have changed since last transmission (optional).
```

There should be neither spaces before the items, between the TAG and the information, nor between the records describing two varieties.

7. Where an item of information can occur more than once, e.g. multiple “maintainers,” the item should be repeated for each occurrence, preceded in each case by the identical identification code:

```
<732>CEBECO  
<732>ZPC
```

8. A record must begin with <000> followed by the identification fields <190> and <010> in sequence. Subsequent items can be presented in any order. Nevertheless, because of a particularity in the JOUVE Control Program, the very last item of information (at the end of the file) should NOT be the date of application (<220>).

9. If an item has several subfields these should be separated from each other by a blank, e.g.:

```
<540>19951129 Superstar
```

10. Items <000>, <190> and <010> constitute the key which enables an object to be identified and must thus always be included.
11. Item <920> is optional.
12. The order in which the items are given is without significance. A hypothetically worked example plus comments on the format in which data should be submitted is reproduced on page 14.

LIST OF MINIMUM INFORMATION FOR THE BACK FILE AND OF MANDATORY ITEMS FOR THE FRONT FILE

13. The following items are mandatory for the front file (varieties entered in the national database after January 1, 1996). Lack of one item would result in the rejection of the whole record in the front file, it would be tolerated only in the back file (varieties entered in the national database before January 1, 1996). (This rule has not been applied for the present as too many varieties would have been deleted. It will be applied as soon as a majority of contributors have improved their data.)

(a) For all varieties

	<000>	Start of record and record status	
	<190>	Country or organization providing information	
	<010>	Type of record and (variety) identifier	
	<511>	Species--UPOV plant variety identification code (as soon as established)	
	<500>	Species--Latin name	
	<731>	Breeder's name	
<i>Either</i>	<509>	Species--Common name in English	
<i>or</i>	<510>	Species--common name	<i>(or both)</i>
<i>Either</i>	<540>	Date + denomination, proposed, first appearance or first entry in database	
<i>or</i>	<600>	Breeder's reference	<i>(or both)</i>

List (a) also applies to information of ZZZ type of record (non-protected, non-listed varieties from breeder's catalogues, publications, etc.).

(b) For varieties where protection/listing is requested

All of **(a)** plus:

<210>	Application number
<220>	Application/filing date
<730>	Applicant's name

List (b) applies only to information of PBR, PLP, PAT and NLI types of record. (For explanations of the abbreviations, see page 12.)

(c) For varieties which are protected/listedAll of **(a)** and **(b)** plus:

	<542>	Date + denomination, approved	
	<111>	Grant number/registration number	
	<610>	Start date--grant/registration	
<i>Either</i>	<665>	Calculated future expiration date	
<i>or</i>	<666>	Type of date followed by end date	<i>(never both)</i>
<i>Either</i>	<732>	Maintainer's name (for listed varieties)	
<i>or</i>	<733>	Title holder's name (for protected varieties)	

List (c) only applies when protection has been granted or the variety has been listed.

(d) Additional Information for Non-Protected, Non-Listed Varieties

The minimum information for non-protected, non-listed varieties (type of record ZZZ) are all items listed above under **(a)**. If there is a need for more information to be given, that additional information (e.g. names of breeder's catalogues, title and publisher of books or other sources) should be placed under <900>*Other Relevant Information* (phrase indexed) or <910>*Remarks* (word indexed).

FORMAT DESCRIPTION AND RULES

14. The following rules are applicable:

(a) Character set: the ASCII representation, as defined in ISO Standard 646, should be used; the submission of data should be in ASCII only. Special characters, symbols or accents (˘, ^, ¨, !, ð, etc.) cannot be used. Only characters of the English alphabet may be used.

(b) Item value format: the item value can be a date, a number or an alphanumeric string of characters.

- Dates must be given in the form YYYYMMDD (YearMonthDay), e.g. 19930903 (ISO Standard 8601). Only valid and complete dates may be given. The date field should be left blank if it is part of the information or not included at all if it is the only information in the item.
- Within a given country, a harmonized number of digits should be chosen for the indication of numbers of a given item and numbers should be given right-justified with zero filling on the left. (See the Hypothetically Worked Example on page 14.)
- An alphanumeric string should always be recorded as left-justified, with trailing blanks being ignored. (See the Hypothetically Worked Example on page 14.)
- The maximum size of an item of information should be as defined on page 11.

(c) Each item of information should start on a new line. Free text should be presented on one single line (without a line or paragraph break).

OPERATIONAL DETAILS

15. File names should be identified on the carrier by at least the name code of the country, the date of origin or delivery and the file sequence number, as follows: CCYYMMDD.NNN where

(a) CC is the code for the country/organization supplying the information (in ISO Standard 3166, see attached [list of countries with their codes](#)), followed by;

(b) YYMMDD identifies the year, month and day number to which the information on the file refers, followed by;

(c) a full stop, followed by

(d) NNN being the filename extension.

16. It is imperative that if one item of information in an object changes, then all items of information for that object are to be delivered again by the supplying country/organization on the occasion of the next delivery of plant variety information. Until further notice, the complete national file must be submitted each time.

17. All participating offices should provide together with their first submission of plant variety data any necessary information—for instance, regarding the filing/registration numbers used by them for both plant variety rights and national listing, etc.—which are needed for the correct interpretation and understanding of their data or explanations on any mandatory items they are not yet submitting or on data they are unable to submit because of special situations in their country (e.g. no national list exists, thus no NLI data can be submitted). Each country should prepare a draft of those explanations considered important by itself. The text would be included in the detailed information by country in the content.pdf file available under directory UPOVPDF of the UPOV-ROM drive.

DETAILS ON CERTAIN ITEMS

18. Further details are given below for certain items:

<000> Start of record and record status

The following codes for the record status are foreseen:

1 = new record

2 = modified record

3 = unchanged record

0 = unknown (to be avoided).

<010> Type of record and variety identifier

The following rules for the harmonization of the presentation of the variety identifier have to be followed:

- no use of comma
- open ended field
- harmonized number of numeric positions (5 or 6) within one single country with zero filling on the left, e.g. presentation 000123
- a blank should be inserted between the type of record and the variety identifier
- the following types are foreseen: PBR: Plant Breeders' Rights
PLP: Plant Patents
PAT: Patents for Inventions
NLI: National Lists
BIL: Bilateral Agreements for Testing
ZZZ: Other (to be explained in the content file).

<540> Date + denomination, proposed, first appearance or first entry in database

This item should mention, in case of rejection of a first proposal for a denomination, not only the date of the first appearance of the first proposal but also in every case the date of first appearance of the second proposal. (See the [Hypothetically Worked Example](#) on page 14.)

<540> Date + denomination, proposed, first appearance or first entry in database

<541> Date + proposed denomination, published

<542> Date + denomination, approved

<543> Date + denomination, rejected or withdrawn

<600> Breeder's reference

<731> Breeder's name

Varieties which are protected and included in an official catalogue (listed) should have only one single identifier, but two complete sets of information, e.g. one as PBR 12345 and the other as NLI 12345. The information items <540>, <541>, <542>, <543>, <600>, <731> should, however, contain the same information (same dates, same denomination in NLI and PBR).

The date of approval of a denomination has to be one single date; the same denomination cannot be approved twice in one single country at different times. Thus always the first date has also to be given in the second case.

<620> Start date—renewal of registration

This item should not be used for the annual renewal of a protected variety. It should be used only for renewal of national listing (or in the few cases of members of the Union foreseeing that protection can be extended after the first period has elapsed).

<600> Breeder's reference

This item is very important in order to link with information on a variety which is also protected in another member of the Union, but under a different denomination. If available, it should always be included in the record; if not available, at least item <540> *Date + denomination, proposed, first appearance or first entry in database* should be included and an explanation should be given to be included in the content.pdf file. As breeders frequently apply intentionally for different denominations in different members of the Union for the same variety, the breeder's reference is one of the few ways to know whether an application in another country has been made for the same variety.

<151> Publication date of data regarding the grant/registration

This item should include only information on the date of the grant or the inclusion in list. It should not include dates of publication concerning a termination.

<665> Calculated future expiration date

<666> Type of date followed by end date

Item <666> only applies to dates of the past where the protection or listing actually ended. For future end dates, item <665> should be used.

For <666>, the type of date should be separated from the end date by a blank. The following types of date are to be used:

REJ: Rejection
EXP: Expiration
DEL: Deletion
WDR: Withdrawal
TER: Termination
SUR: Surrender.

A termination (TER) or expiration (EXP) means that a right or an inclusion in a list existed before. Thus for terminated varieties information on listing or protection should be given (see mandatory items above). Termination means that the right has been terminated by the plant variety protection office before its foreseeable end. Expiration means that the right has lapsed at the end of the possible maximum period.

Each record with a start date should include **either** <666> with an actual end date **or** <665> with a calculated expiration date according to the maximum number of years of protection foreseen for the species concerned. As that period changes from species to species and from country to country the information is very important. As soon as there is an item <665>, item <666> should be deleted. Both items should never be used for the same variety.

<730> - <740> Names

Names should be presented in a way that the surname is followed by a comma and the forename, etc., as otherwise phrase indexing would be misleading. Titles (e.g. Dr.) or other

prefixes should not be placed at the beginning of the name. Names should also all be presented in the same way, not some in capitals and others with only the first letter in capitals.

If applicable, addresses should be given in the name field; in this case, they should be delimited by a vertical bar '|' as otherwise word indexing would lead to a too noisy index (would contain even street name). Only the part before the vertical bar would be indexed. The address would thus not be indexed.

<732> Maintainer's name

Item <732> should be used for all maintenance of a variety covering

(a) maintenance of a protected variety (a protected variety may have several different maintainers) and

(b) maintenance for national listing.

<733> Title holder's name

Item <733> should only be used in case of protection. The person requesting inclusion in a national list or having obtained inclusion in the list is not a title holder but the maintainer of the variety (<732>). In the case of a rejection, there is an applicant (<730>), but no title holder (<733>).

<740> Type of other party followed by party's name

A code should always be used for the type of the other party before the name (e.g. AGT DANUBIA PATENT BUREAU). A blank should be added between the type and the name. The following codes of type are foreseen:

AGT: Agent

CLH: Compulsory License Holder

ELH: Exclusive License Holder

OPN: Other Party's Name.

<220> Application/filing date

<300> Priority application: country, type of record, date of application, application number

In case of a priority application, the date under <220> should not be the priority date in the other country, but the real application date. The priority date should be given under <300>. All subfields should be separated by a blank.

<320> Other countries: Country, denomination if different from denomination in application

Item <320> should also be used for varieties which are tested under bilateral test agreements. All subfields should be separated by a blank.

<900> Other Relevant Information

<910> Remarks

Those two items are foreseen for any other information considered useful or necessary. Item <900> is phrase indexed. Item <910> is word indexed.

HANDLING OF MISSING INFORMATION

19. Missing information should be handled as follows:

(a) Part of an item is missing

If part of an item is missing, e.g. if the date for item <542> is missing, the item should be kept and presented as follows: <542>.....DENOMINATION (8 spaces to replace the missing date + 1 space before the denomination = 9 spaces). Filling of the missing information should be done by blank spaces. The use of a wrong or fictive date (19000000) will lead to a rejection. Countries which have information available only for a whole year, should give a fixed valid date for that year (e.g. December 31).

(b) All information for an item is missing

If all information for an item is missing, the item should be deleted.

INFORMATION FOR THE UNDERSTANDING OF THE UPOV-ROM

20. The UPOV-ROM pdf files will include the UPOV Recommendations on Variety Denominations ([denomrec.pdf](#)) and the addresses of the offices for plant variety protection of the members of the Union ([address.pdf](#)).

21. If a country cannot supply information for certain items for confidentiality reasons, this should be stated in the additional information supplied by each country and reproduced in the [content.pdf](#) file, highlighting those items which are not included for confidentiality reasons.

PROPOSED CODES FOR IDENTIFYING INFORMATION ITEMS

<u>TAG</u>	<u>Description of Item</u>	<u>Repeatable (R)</u>	<u>Format of Item</u>	<u>Notes</u>
<000>	Start of record and record status		N1	(1)
<190>	Country or organization providing information		A2	ISO 3166
<010>	Type of record and (variety) identifier		open ended	(2)
<500>	Species--Latin name		open ended	
<509>	Species--common name in English	R	open ended	
<510>	Species--common name in national language other than English	R	open ended	
<511>	Species--UPOV Taxon Code (not yet available)		open ended	(3)
	DENOMINATIONS			(4)
<540>	Date + denomination, proposed, first appearance or first entry in data base	R	open ended	
<541>	Date + proposed denomination, published	R	open ended	
<542>	Date + denomination, approved		open ended	
<543>	Date + denomination, rejected or withdrawn	R	open ended	
<600>	Breeder's reference		open ended	As given by breeder
<601>	Synonym of variety denomination	R	open ended	
<602>	Trade name	R	open ended	
<210>	Application number		open ended	
<220>	Application/filing date		N8	ISO 8601
<400>	Publication date of data regarding the application (protection)/filing (listing)		N8	ISO 8601
<111>	Grant number (protection)/registration number (listing)		open ended	
<151>	Publication date of data regarding the grant (protection)/ registration (listing)		N8	ISO 8601
<610>	Start date--grant (protection)/registration (listing)		N8	ISO 8601
<620>	Start date--renewal of registration (listing)	R	N8	ISO 8601
<665>	Calculated future expiration date		N8	
<666>	Type of date followed by "End date"		A3+N8	(5)
	PARTIES CONCERNED			(6)
<730>	Applicant's name	R	open ended	
<731>	Breeder's name	R	open ended	
<732>	Maintainer's name	R	open ended	
<733>	Title holder's name	R	open ended	
<740>	Type of other party followed by party's name	R	open ended	(7)
	INFORMATION REGARDING EQUIVALENT APPLICATIONS IN OTHER COUNTRIES			
<300>	Priority application: country, type of record, date of application, application number	R	open ended	(6)
<310>	Other applications: country, type of record, date of application, application number	R	open ended	(8)
<320>	Other countries: Country, denomination if different from denomination in application	R	open ended	(8)
<330>	Other countries: Country, breeder's reference if different from breeder's reference in application	R	open ended	(8)
<900>	Other relevant information (phrase indexed)	R	open ended	(9)
<910>	Remarks (word indexed)		free text	
<920>	Tags of items of information which have changed since last transmission (optional)	R	N3	(10)
<998>	FIG		A3	(11)
<999>	Image identifier (for future use)		A 12	

EXPLANATORY NOTES

General:

- (a) TAGS in general follow WIPO Standard ST 60 (INID Codes for Trademarks)
- (b) The data are only to be delivered if available
- (c) N: means numeric field
A: means alphanumeric field
- (d) If part of the information is absent in a TAG with different information on one line, that fact should be marked with a number of blanks corresponding to the number of missing characters.

Notes

- (1) Codes for the record status value:
 - 1 = new record
 - 2 = modified record
 - 3 = unchanged record
 - 0 = unknown (to be avoided).
- (2) Type of record and (variety) identifier
 - (a) Type of record value: mnemonic three alpha positions
PBR: Plant Breeders' Rights
PLP: Plant Patents
PAT: Patents for Invention
NLI: National Lists
BIL: Bilateral Agreements for Testing
ZZZ: Other (to be defined at a later stage)
 - (b) (Variety) Identifier: to be given by the originator of data (might be identical to application or filing number). It should be separated from the type of record by a blank.
- (3) Code for plant species identification as given by UPOV (not yet available)
- (4) Multiple occurrences possible. Date should always appear in first 8 positions and be followed by a blank. If the original denomination is in non-Roman characters, transliteration into Roman characters must be given.
- (5) The date should always be preceded by the "type of date" coded as follows:

rejection (REJ)	expiration (EXP)
deletion (DEL)	withdrawal (WDR)
termination (TER)	surrender (SUR).

The type of date should be followed by a blank before the denomination.
- (6) Blanks should be used to separate subfield elements.
- (7) Multiple occurrences possible; the name should always be preceded by the "type of name" as follows

Agent (AGT)	Compulsory License Holder (CLH)
Exclusive License Holder (ELH)	Other Party Name (OPN).

The type of name should be followed by a blank before the name.
- (8) The data should always be coded in the order indicated. Blanks should be used to separate the subfield elements.
- (9) Relevant information might include the following
 - ' marketed since [date] '
 - ' in gene bank since [date] '
 - ' in international register '
 - ' in private catalogue '
 - ' in other publications '
 - ' literature reference. '
- (10) Optional information
- (11) Indication that the original denomination is in other than Roman characters, and that an "image" of the original denomination, e.g. in Cyrillic, Hebrew, Japanese, Chinese, Arabic, is associated with this record.

**LIST OF INDEXES WHICH PERMIT SEARCHING
WITH BOOLEAN OPERATORS**

<u>Item Code</u>	<u>Description of Item</u>	<u>Index No.</u>	<u>Index rule</u> ¹⁾
<190>	<u>Country</u> or <u>organization</u> providing information	(1)	w
<010>	<u>Type of record</u> and (variety) <u>identifier</u>	(2)	p
<500>	<u>Latin name</u>	(3)	w, p
<509>	<u>Common name</u> in English	(4)	w
<510>	<u>Common name</u> in national language other than English		
<511>	<u>UPOV Taxon Code</u> (not yet available)	(5)	p
<540>	<u>Denomination</u>	(6)	w, p
<541>	<u>Denomination</u>		
<542>	<u>Denomination</u>		
<543>	<u>Denomination</u>		
<320>	<u>Denomination</u>		
<999>	FIG		
<601>	<u>Synonyms</u> of variety denomination		
<602>	<u>Trade names</u>	(7)	p
<600>	<u>Breeder's reference</u>	(8)	p
<330>	Other countries: Country, <u>breeder's reference</u>		
<610>	Start <u>date</u> --grant/registration	(9)	p
<620>	Start <u>date</u> --renewal		
<210>	<u>Application number</u>	(10)	p
<220>	<u>Date</u> of application/filing	(11)	p
<665>	Calculated future expiration <u>date</u>	(12)	p
<666>	End <u>date</u> --rejection (REJ), deletion (DEL), termination (TER), expiration (EXP), withdrawal (WDR), surrender (SUR)	(13)	p
<730>	Applicant's <u>name</u>	(14)	w, p
<731>	Breeder's <u>name</u>		
<732>	Maintainer's <u>name</u>		
<733>	Title holder's <u>name</u>		
<740>	Any other party's <u>name</u> (Agent etc.)		
<300>	Other countries: Priority application (<u>country</u> , <u>type of record</u> , <u>date of application</u> , application No.)	(15)	p
<310>	Other countries: Other applications (<u>country</u> , <u>type of record</u> , <u>date of application</u> , application No.)		
<900>	Other relevant information	(16)	p
<910>	<u>Remarks</u>	(17)	w
<920>	<u>Tags</u> of items of information which have changed since last transmission	(18)	p

Notes

- ¹⁾ w = word indexed
p = phrase indexed
w, p = separately word and phrase indexed.

HYPOTHETICALLY WORKED EXAMPLE OF THE STANDARD FORMAT
(PLUS COMMENTS)

IMPORTANT: Each field should be delimited by CR/LF (carriage return fine field = ¶)

<000>1	1 = new record status (other figures: 2 = modified record, 3 = unchanged record, 0 = unknown (0 to be avoided)), <u>mandatory</u> .
<190>DE	DE = Germany, country providing information, two letter code, code ISO 3166, <u>mandatory</u> .
<010>PBR 00456	PBR = Plant Variety Protection, number 456. Each record will start with the <u>mandatory</u> fields <000>, <190> and <010> (other abbr.: PLP = plant patent, NLI = national list, PAT = patent for invention, BIL = bilateral agreement for testing, ZZZ = other).
<500>GERBERA CASS	Latin name of species, <u>mandatory</u> , until the UPOV Code is prepared.
<509>GERBERA	Common name of species in English, <u>mandatory if</u> no common name in national language (<510>) is given.
<510>GERBERA	Common name of species in national language other than English, <u>mandatory if</u> no English common name (<509>) is given. (<511> omitted, as the UPOV Code is still under preparation; thereafter the item is <u>mandatory</u>).
<540>19890430 LIGHT	Date of proposal and proposed denomination will show multiple occurrence if the first proposal has been replaced by a second one, <u>mandatory if</u> no breeder's reference (<600>) is given.
<540>19900104 LIGHTNING	
<541>19890625 LIGHT	Date of publication of proposal will show multiple occurrence if the first proposal has been rejected or withdrawn.
<541>19900110 LIGHTNING	
<542>19900225 LIGHTNING	Date and approved denomination, <u>mandatory if</u> protected or listed.
<543>19891113 LIGHT	Date and the rejected or withdrawn proposal.
<601>BRIGHT LIGHT	Synonym of the variety denomination.
<602>BEAUTY OF X	Trade name.
<600>BS359	Breeder's reference, <u>mandatory if</u> existing.
<210>GE 00739	Application number, <u>mandatory if</u> application exists.
<220>19890215	Date of application, ISO 8601 Standard for dates, <u>mandatory if</u> application exists.
<400>19890315	Date of publication of application.
<111>GE 01037	Grant number, <u>mandatory if</u> existing.
<151>19900301	Date of publication of grant.
<610>19900225	Date of grant, <u>mandatory if</u> existing.
<665>20100224	Calculated future expiration date, <u>mandatory if</u> grant/listing. (<620> only for renewal of registration in national list).
<666>WDR 19940609	Date of withdrawal (WDR = withdrawal) <u>mandatory if</u> existing (other abbr.: REJection, DELEtion, TERmination, EXPiration, SURrender).
<730>FLORA AG	Applicant's name, <u>mandatory if</u> application exists.
<731>SMITH GEORGE	Breeder's name, <u>mandatory</u> .
<732>MUELLER ELISABETH	Maintainer's name, <u>mandatory if</u> listed.
<733>MUELLER GERDA	Name of title holder, <u>mandatory if</u> protected.
<740>ELH SCHMIDT HEINZ	ELH=Exclusive license holder's name (other abbr.: AGT = agent, CLH = compulsory licence holder, OPN = other party name).
<300>GB PBR 19881012 54321	Information regarding other countries, priority application in United Kingdom (GB) for Plant Breeders' Rights (PBR) from October 12, 1988, with the application number 54321. (<310> other applications.)
<320>US BRIGHT LIGHT	Marketed in US under the name of Bright Light. (<330> other countries.)
<910>IN INTERNATIONAL REGISTER	Remarks (word indexed). (<900> Other relevant information; phrase indexed.) (<920> Tags of items of information which have changed since last transmission; optional.) (<998> Figurative elements, e.g. Japanese names.) (<999> Image identifier for future use.)

STATES AND ORGANIZATIONS STANDARD CODES

(please refer to document [content.pdf](#) for an exhaustive list of the ISO codes of data contributors only)

AFGHANISTAN	AF	COMMUNITY PLANT VARIETY OFFICE (CPVO) ¹	QZ
ALBANIA	AL	CONGO	CG
ALGERIA	DZ	COOK ISLANDS	CK
AMERICAN SAMOA	AS	COSTA RICA	CR
ANDORRA	AD	CÔTE D'IVOIRE	CI
ANGOLA	AO	CROATIA	HR
ANGUILLA	AI	CUBA	CU
ANTIGUA AND BARBUDA	AG	CYPRUS	CY
ARGENTINA	AR	CZECH REPUBLIC	CZ
ARMENIA	AM		
ARUBA	AW	DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA	KP
AUSTRALIA	AU	DEMOCRATIC REPUBLIC OF THE CONGO	ZR
AUSTRIA	AT	DENMARK	DK
AZERBAIJAN	AZ	DJIBOUTI	DJ
		DOMINICA	DM
BAHAMAS	BS	DOMINICAN REPUBLIC	DO
BAHRAIN	BH		
BANGLADESH	BD	EAST TIMOR ²	TP
BARBADOS	BB	ECUADOR	EC
BELARUS	BY	EGYPT	EG
BELGIUM	BE	EL SALVADOR	SV
BELIZE	BZ	EQUATORIAL GUINEA	GQ
BENIN	BJ	ERITREA	ER
BERMUDA	BM	ESTONIA	EE
BHUTAN	BT	ETHIOPIA	ET
BOLIVIA	BO		
BOSNIA AND HERZEGOVINA	BA	FALKLAND ISLANDS (MALVINAS)	FK
BOTSWANA	BW	FAROE ISLANDS	FO
BOUVET ISLAND	BV	FIJI	FJ
BRAZIL	BR	FINLAND	FI
BRUNEI DARUSSALAM	BN	FRANCE	FR
BULGARIA	BG		
BURKINA FASO	BF	GABON	GA
BURUNDI	BI	GAMBIA	GM
		GEORGIA	GE
CAMBODIA	KH	GERMANY	DE
CAMEROON	CM	GHANA	GH
CANADA	CA	GIBRALTAR	GI
CAPE VERDE	CV	GREECE	GR
CAYMAN ISLANDS	KY	GREENLAND	GL
CENTRAL AFRICAN REPUBLIC	CF	GRENADA	GD
CHAD	TD	GUATEMALA	GT
CHILE	CL	GUINEA	GN
CHINA	CN	GUINEA-BISSAU	GW
COLOMBIA	CO	GUYANA	GY
COMOROS	KM	HAITI	HT

HOLY SEE	VA	MOZAMBIQUE	MZ
HONDURAS	HN	MYANMAR	MM
HONG KONG	HK		
HUNGARY	HU	NAMIBIA	NA
		NAURU	NR
ICELAND	IS	NEPAL	NP
INDIA	IN	NETHERLANDS	NL
INDONESIA	ID	NETHERLANDS ANTILLES	AN
IRAN (ISLAMIC REPUBLIC OF)	IR	NEW ZEALAND	NZ
IRAQ	IQ	NICARAGUA	NI
IRELAND	IE	NIGER	NE
ISRAEL	IL	NIGERIA	NG
ITALY	IT	NORTHERN MARIANA ISLANDS	MP
		NORWAY	NO
JAMAICA	JM		
JAPAN	JP	OMAN	OM
JORDAN	JO	ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT (OECD) ¹	QM
KAZAKSTAN	KZ	PAKISTAN	PK
KENYA	KE	PALAU	PW
KIRIBATI	KI	PANAMA	PA
KOREA (see Democratic People's Republic of Korea; Republic of Korea)		PAPUA NEW GUINEA	PG
KUWAIT	KW	PARAGUAY	PY
KYRGYZSTAN	KG	PERU	PE
		PHILIPPINES	PH
LAOS	LA	POLAND	PL
LATVIA	LV	PORTUGAL	PT
LEBANON	LB		
LESOTHO	LS	QATAR	QA
LIBERIA	LR		
LIBYA	LY	REPUBLIC OF KOREA	KR
LIECHTENSTEIN	LI	REPUBLIC OF MOLDOVA	MD
LITHUANIA	LT	ROMANIA	RO
LUXEMBOURG	LU	RUSSIAN FEDERATION	RU
		RWANDA	RW
MACAU	MO		
MADAGASCAR	MG	SAINT HELENA	SH
MALAWI	MW	SAINT KITTS AND NEVIS	KN
MALAYSIA	MY	SAINT LUCIA	LC
MALDIVES	MV	SAMOA	WS
MALI	ML	SAINT VINCENT AND THE GRENADINES	VC
MALTA	MT	SAN MARINO	SM
MARSHALL ISLANDS	MH	SAO TOME AND PRINCIPE	ST
MAURITANIA	MR	SAUDI ARABIA	SA
MAURITIUS	MU	SENEGAL	SN
MEXICO	MX	SEYCHELLES	SC
MICRONESIA (Federated States of)	FM	SIERRA LEONE	SL
MONACO	MC	SINGAPORE	SG
MONGOLIA	MN	SLOVAKIA	SK
MONTSERRAT	MS	SLOVENIA	SI
MOROCCO	MA	SOLOMON ISLANDS	SB

SOMALIA	SO	TURKS AND CAICOS ISLANDS	TC
SOUTH AFRICA	ZA	TUVALU	TV
SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS	GS	UGANDA	UG
SPAIN	ES	UKRAINE	UA
SRI LANKA	LK	UNITED ARAB EMIRATES	AE
SUDAN	SD	UNITED KINGDOM	GB
SURINAME	SR	UNITED REPUBLIC OF TANZANIA	TZ
SWAZILAND	SZ	UNITED STATES OF AMERICA	US
SWEDEN	SE	URUGUAY	UY
SWITZERLAND	CH	UZBEKISTAN	UZ
SYRIA	SY		
		VANUATU	VU
TAIWAN, PROVINCE OF CHINA	TW	VATICAN CITY STATE (See Holy See)	-
TAJIKISTAN	TJ	VENEZUELA	VE
THAILAND	TH	VIET NAM	VN
THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA	MK	VIRGIN ISLANDS (BRITISH)	VG
TOGO	TG		
TONGA	TO	WESTERN SAHARA ¹	EH
TRINIDAD AND TOBAGO	TT	YEMEN	YE
TUNISIA	TN	YUGOSLAVIA	YU
TURKEY	TR		
TURKMENISTAN	TM	ZAMBIA	ZM
		ZIMBABWE	ZW

¹ Codes **QM** to **QZ** and **XA** to **XZ** are made available by the International Standardization Organization (ISO) for use in internal applications by organizations or non-State authorities. The use of EU, for example, for European Union could lead to a confusion if a new State were created and given the code EU by the International Standardization Organization. In the UPOV-ROM database, the code QM is for OECD and the code QZ is for CPVO.

¹ Provisional name.

LIST OF CODES, IN ALPHABETIC SEQUENCE, AND THE CORRESPONDING
(SHORT) NAMES OF STATES, OTHER ENTITIES AND
INTERGOVERNMENTAL ORGANIZATIONS

AD	Andorra	FJ	Fiji
AE	United Arab Emirates	FK	Falkland Islands (Malvinas)
AF	Afghanistan	FM	Micronesia (Federated States of)
AG	Antigua and Barbuda	FO	Faroe Islands
AI	Anguilla	FR	France
AL	Albania		
AM	Armenia	GA	Gabon
AN	Netherlands Antilles	GB	United Kingdom
AO	Angola	GD	Grenada
AR	Argentina	GE	Georgia
AS	American Samoa	GH	Ghana
AT	Austria	GI	Gibraltar
AU	Australia	GL	Greenland
AW	Aruba	GM	Gambia
AZ	Azerbaijan	GN	Guinea
		GQ	Equatorial Guinea
BA	Bosnia and Herzegovina	GR	Greece
BB	Barbados	GS	South Georgia and the South Sandwich Islands
BD	Bangladesh	GT	Guatemala
BE	Belgium	GW	Guinea-Bissau
BF	Burkina Faso	GY	Guyana
BG	Bulgaria		
BH	Bahrain	HK	Hong Kong
BI	Burundi	HN	Honduras
BJ	Benin	HR	Croatia
BM	Bermuda	HT	Haiti
BN	Brunei Darussalam	HU	Hungary
BO	Bolivia		
BR	Brazil	ID	Indonesia
BS	Bahamas	IE	Ireland
BT	Bhutan	IL	Israel
BV	Bouvet Island	IN	India
BW	Botswana	IQ	Iraq
BY	Belarus	IR	Iran (Islamic Republic of)
BZ	Belize	IS	Iceland
		IT	Italy
CA	Canada		
CF	Central African Republic	JM	Jamaica
CG	Congo	JO	Jordan
CH	Switzerland	JP	Japan
CI	Côte d'Ivoire		
CK	Cook Islands	KE	Kenya
CL	Chile	KG	Kyrgyzstan
CM	Cameroon	KH	Cambodia
CN	China	KI	Kiribati
CO	Colombia	KM	Comoros
CR	Costa Rica	KN	Saint Kitts and Nevis
CU	Cuba	KP	Democratic People's Republic of Korea
CV	Cape Verde	KR	Republic of Korea
CY	Cyprus	KW	Kuwait
CZ	Czech Republic	KY	Cayman Islands
		KZ	Kazakstan
DE	Germany		
DJ	Djibouti	LA	Laos
DK	Denmark	LB	Lebanon
DM	Dominica	LC	Saint Lucia
DO	Dominican Republic	LI	Liechtenstein
DZ	Algeria	LK	Sri Lanka
		LR	Liberia
EC	Ecuador	LS	Lesotho
EE	Estonia	LT	Lithuania
EG	Egypt	LU	Luxembourg
EH	Western Sahara ²	LV	Latvia
ER	Eritrea	LY	Libya
ES	Spain		
ET	Ethiopia	MA	Morocco
		MC	Monaco
FI	Finland	MD	Republic of Moldova

MG	Madagascar	SG	Singapore
MH	Marshall Islands	SH	Saint Helena
MK	The former Yugoslav Republic of Macedonia	SI	Slovenia
ML	Mali	SK	Slovakia
MM	Myanmar	SL	Sierra Leone
MN	Mongolia	SM	San Marino
MO	Macau	SN	Senegal
MP	Northern Mariana Islands	SO	Somalia
MR	Mauritania	SR	Suriname
MS	Montserrat	ST	Sao Tome and Principe
MT	Malta	SV	El Salvador
MU	Mauritius	SY	Syria
MV	Maldives	SZ	Swaziland
MW	Malawi		
MX	Mexico	TC	Turks and Caicos Islands
MY	Malaysia	TD	Chad
MZ	Mozambique	TG	Togo
		TH	Thailand
NA	Namibia	TJ	Tajikistan
NE	Niger	TM	Turkmenistan
NG	Nigeria	TN	Tunisia
NI	Nicaragua	TO	Tonga
NL	Netherlands	TP	East Timor ²
NO	Norway	TR	Turkey
NP	Nepal	TT	Trinidad and Tobago
NR	Nauru	TV	Tuvalu
NZ	New Zealand	TW	Taiwan, Province of China
		TZ	United Republic of Tanzania
OM	Oman		
		UA	Ukraine
PA	Panama	UG	Uganda
PE	Peru	US	United States of America
PG	Papua New Guinea	UY	Uruguay
PH	Philippines	UZ	Uzbekistan
PK	Pakistan		
PL	Poland	VA	Holy See
PT	Portugal	VC	Saint Vincent and the Grenadines
PW	Palau	VE	Venezuela
PY	Paraguay	VG	Virgin Islands (British)
		VN	Viet Nam
QA	Qatar	VU	Vanuatu
QM	Organisation for Economic Development and Co-operation (OECD) ¹		
QZ	EU Community Plant Variety Office (CPVO) ¹	WS	Samoa
			(XA-XZ) ¹
RO	Romania		
RU	Russian Federation	YE	Yemen
RW	Rwanda	YU	Yugoslavia
SA	Saudi Arabia	ZA	South Africa
SB	Solomon Islands	ZM	Zambia
SC	Seychelles	ZR	Democratic Republic of the Congo
SD	Sudan	ZW	Zimbabwe
SE	Sweden		

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¹ Provisional name.

List of States in Respect of Which Codes Have Changed

Country	Code used before 1.1.1978	New Code used from 1.1.1978	Country	Code used before 1.1.1978	New Code used from 1.1.1978
Albania	AN	AL	Japan	JA	JP
Algeria	AG	DZ	Kuwait	KU	KW
Austria	OE	AT	Liechtenstein	FL	LI
Bahrain	BB	BH	Madagascar	MD	MG
Bangladesh	BA	BD	Mali	MJ	ML
Barbados	BD	BB	Malta	ML	MT
Benin	DA	BJ	Mauritania	MT	MR
Bhutan	BH	BT	Mauritius	MS	MU
Botswana	BT	BW	Mongolia	MO	MN
Burkina Faso	UV	HV/BF ¹	Myanmar	BU	MM ²
Burma (see Myanmar)			Nicaragua	NA	NI
Cambodia	CD	KH	Niger	NI	NE
Cameroon	KA	CM	Nigeria	WN	NG
Central African Republic	ZR	CF	Oman	MU	OM
Chad	TS	TD	Panama	PM	PA
Chile	CE	CL	Papua New Guinea	PP	PG
China	RC	CN	Paraguay	PG	PY
Congo	CF	CG	Poland	PO	PL
Democratic Kampuchea (see Cambodia)			Republic of Korea	KS	KR
Democratic People's Republic of Korea	KN	KP	Romania	RU	RO
Dominican Republic	DR	DO	Sierra Leone	WL	SL
Egypt	ET	EG	Sri Lanka	CL	LK
El Salvador	SL	SV	Sweden	SW	SE
Ethiopia	EA	ET	Syria	SR	SY
Finland	SF	FI	Togo	TO	TG
Gambia	GE	GM	Tonga	TI	TO
Germany	DT	DE	Trinidad and Tobago	TD	TT
Guatemala	GU	GT	United Republic of Tanzania	TA	TZ
Guinea	GI	GN	Zaire	CB	ZR
Haiti	HI	HT	Zambia	ZB	ZM
Holy See	CV	VA			
Honduras	HO	HN			
Ireland	EI	IE			

¹ Code BF adopted in 1984.

² Code MM adopted in 1989.

List of States or Organizations That Existed on January 1, 1978, But That No Longer Exist

Czechoslovakia.....	CS
Democratic Yemen	SY/YD ¹
German Democratic Republic.....	DL/DD ²
International Patent Institute	IB
Soviet Union	SU

¹ Code SY used before 1.1.1978

² Code DL used before 1.1.1978

[Annex II follows]

**EXPLANATIONS TO FACILITATE THE INSTALLATION
OF THE CONTROL PROGRAM FOR DATA
FOR THE UPOV-ROM PLANT VARIETY DATABASE**

In order to facilitate the installation of the control program for the data for the UPOV-ROM Plant Variety Database produced by JOUVE, the program has in the meantime been slightly amended by adding an installation program. Please follow the steps in the explanations below and also those in the installation program.

To install the control program you have two options:

(a) Use the `install.bat` program on the `a:\jouve-pr` directory (the control program will be installed on drive c: under the directory `c:\upvctrl`)

Type `a:\jouve-pr\install` at the DOS prompt.

(b) If you want to install the program yourself, e.g. on drive d: , for example in directory `upovcon`, use the following procedure:

<u>At command prompt</u>	<u>Type</u>	<u>Result</u>
<code>c:\></code>	<code>d:</code>	switch to drive d:
<code>d:\></code>	<code>md\upovcon</code>	create directory upovcon
<code>d:\></code>	<code>cd\upovcon</code>	change to directory upovcon
<code>d:\upovcon\></code>	<code>xcopy a:\jouve-pr*. * d: /s</code>	xcopy the contents of the jouve-pr directory from the floppy disc (including subdirectories)
<code>d:\upovcon\></code>	<code>process test txt</code>	run the control program

EXPLANATIONS FOR THE JOUVE CONTROL PROGRAM FOR THE CHECKING OF ERRORS COMPARED WITH THE FORMAT FOR TRANSMISSION OF DATA FOR THE UPOV-ROM

At the request of the Office of UPOV, the French firm JOUVE, that processes the data and produces the UPOV-ROM, has written a control program (running under DOS; JOUVE (c) 1996 - Test processing on UPOV DATA), which highlights the errors made in order to facilitate their elimination. It is available from the Office of UPOV on a disc.

The present explanations provide some information on how to run the program as contained in the readme file on the above disc:

1. When copying the contents of the floppy disc, do not change subdirectories.
2. Just execute under DOS the process.bat file which is at the root of your working directory for each input files with the following syntax:

PROCESS <name of the file> <extension of the file> [/P] *!!! No dot (.) between the filename and its extension !!!*

/P to make a pause between each phase of the program.

[] indicates that the parameter is optional.

1. Results

There is no output UPOV data files. Reports on process files are located in the SPY subdirectory.

TAG files contain tag errors.

DAT files contain information about data errors.

SPY files identify lexical errors.

LEX files contain statistic information about UPOV data.

If you enter the LEX file you will get an overview of your data. This is very helpful and allows you to immediately see certain errors. For example, if the total number of breeders' references does not agree with the total number of varieties or if the number of approved denominations is less than the number of grant dates, etc.

[End of document]