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|  |  | E  EAF/4/3  **ORIGINAL**: English  DATE: October 10, 2014 |
| INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS | | |
| Geneva | | |

MEETING ON THE DEVELOPMENT OF A PROTOTYPE ELECTRONIC FORM

Fourth Meeting  
Geneva, October 14, 2014

data exchange AND DATA MODEL

prepared by the Office of the Union  
  
Disclaimer: this document does not represent UPOV policies or guidance

The purpose of this document is to provide information concerning the data exchange and data model for the prototype electronic form and to report on developments since the third meeting, held in Geneva on April 9, 2014.

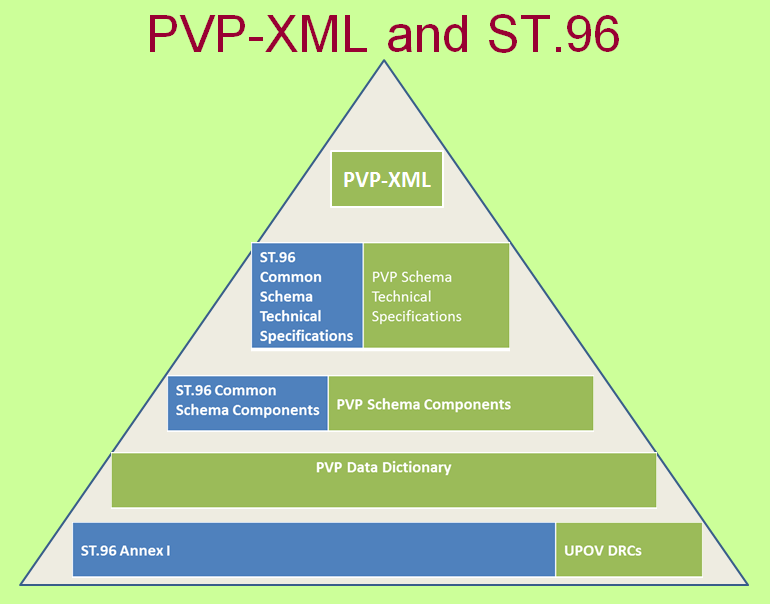
# Background

It is recalled that one of the key aspects of the prototype is the data format, as follows (see document CAJ/68/8 “Electronic application systems”):

Data format: The UPOV electronic form would enable data to be transferred to participating members of the Union in Word, Excel, PDF or XML format. The participating members of the Union would decide in which format(s) to accept data. In the case of XML format, a standard format would be developed, based on WIPO standard ST.96.

# PVP-XML SCHEMA

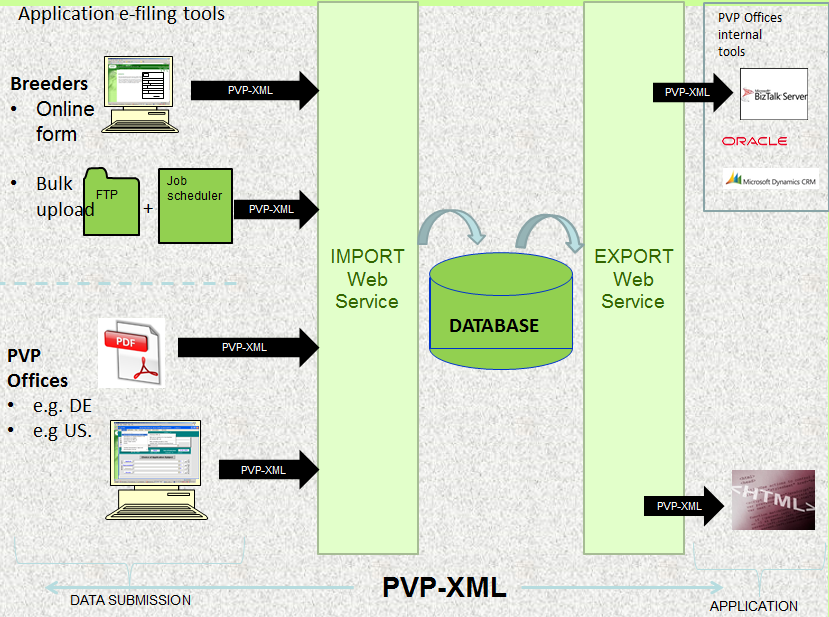
On the above basis the XML Schema to be used for the project (i.e. PVP-XML) will, as far as possible, reuse and refer to relevant components of the WIPO Standard ST.96 (“common components”). Components which are not covered by the ST.96 standard will be described and developed on the basis of the ST.96 Annex I (Design Rules and conventions) and UPOV XML Design Rules and Conventions (DRCs).



As agreed, the PVP-XML will, as far as possible, be based on the WIPO standard ST.96, and would be updated in line with ST.96, as appropriate; however, it is not planned for the PVP-XML to be prepared for adoption as a WIPO standard.

DATA EXCHANGE

In order to allow data exchange, an electronic data interchange system will be implemented according to a communication protocol to allow transfer of data (i.e. application data) between stakeholders (i.e. Breeders, PVP Offices and the Office of the Union). The system will provide an import (via online form or bulk upload) and export facility (under HTML format or PVP-XML format via PVP office’s system) through web services (web interface).



It is proposed that the full set of data provided for a variety application would be sent to all authorities selected by the applicant, from which each authority would extract the relevant data on the basis of tags associated with the data. The possibility of providing only the data required for each authority would incur substantially higher development costs and administration costs, if the system was put into operation.

Participating members in the development of a prototype electronic form are invited to consider the proposal for data exchange and export facility as set out in paragraph 6 of this document.

DATA STRUCTURE USED BY AUTHORITIES AND APPLICANTS

At the third meeting on the development of a prototype electronic form, it was agreed that an important first step in the development of a prototype electronic application system would be to understand the data structure used by authorities (i.e. PVP offices) and applicants (i.e.  breeders). Therefore, participants in the EAF Project were invited to provide information on their database structure and PVP data format   
(Circular E-4/111 of May 2, 2014). In addition, to assist in the design of the database and define the data model, participants were invited to provide sample data (Circular E-14/205 of August 6, 2014).

The participants in the EAF Project agreed at their meeting on April 9, 2014, that:

* Only participants, who provide the necessary level of information, as indicated in previous circulars, could be assured that the format will be compatible with their databases.
* Participants will also need to allocate time to comment and test the import / export facility of PVP data to / from their internal system to the UPOV database Form (from October 2014 to October 2015).

PROCESS FOR REVIEWING PROPOSALS

Information received from the following participating members of the Union has been incorporated in the first draft to be presented at the fourth meeting on the development of a prototype electronic form, to be held in Geneva on October 14, 2014: Australia, Brazil, Canada, European Union, Japan, Mexico, New Zealand, Republic of Korea, Switzerland, United States of America and Viet Nam.

As reported in Circular E-14/191, of July 17, 2014, Mrs. Hend Madhour, has started a contract with UPOV as a database modeler. The following information will be made available on a collaborative platform for this project (wiki space UPOV\_EAS) in October 2014 for experts’ comments:

[UPOV XML Design Rules and Conventions](https://www3.wipo.int/confluence/display/UP/2.1.+UPOV+XML+Design++Rules+and+Conventions) (UPOV DRCs)

XML Design Rules and Conventions according to WIPO Standard ST.96 Annex I, are being used as a basis for the creation and use of XML schemas and instances regarding data exchange among the Plant Variety Protection (PVP) community. Since ST.96 does not cover specific PVP requirements, additional rules (UPOV DRCs) have been defined to supplement existing rules defined in WIPO Standard ST.96 Annex I.

The UPOV XML Design Rules and Conventions (DRCs) are reproduced in Annex I to this document. This document will be used as the point of reference for approved design rules and conventions with which all XML schemas must follow in order to be considered ST.96/PVP-XML compatible. PVP offices and breeders can use this document along with WIPO Standard ST.96 Annex I as a guideline for developing their internal design rules. The ST.96 Annex I and UPOV DRCs will be consulted prior to beginning development of a   
PVP-XML schema or modifying an existing PVP-XML schema.

Participating members in the development of a prototype electronic form are invited to comment on the UPOV DRCs, presented in Annex I to this document, by October 24, 2014.

[PVP Data Dictionary](https://www3.wipo.int/confluence/display/UP/2.2.+PVP+Data+Dictionary)

The PVP Data Dictionary is intended to provide data entities used for PVP data exchange. The PVP Data Dictionary contains data entities which can be populated in XML instances of PVP documents.

The PVP Data Dictionary is divided in two parts: “Elements and Attributes Dictionary” and “Enumeration Values Dictionary”, as reproduced in Annex II to this document.

The Element and Attributes dictionary consists of:

* "Dictionary Entry" identifies data entity by its name which is unique in the PVP Data Dictionary. The name consists of the terms of ‘object class’, ‘property term’, ‘representation term’ and ‘qualifier’. The ‘qualifier term’ is a word or words which help define and differentiate a data element from its other related data element and is attached to object class or property term if necessary to make the name unique (i.e. no separate column for the qualifier);
* "Description" provides definition of the dictionary entry. It should be synchronized with documentation of corresponding schema defined in the PVP-XML Schema;
* "Object Class" refers to an activity or object within a business context and represents the logical data grouping or aggregation (in a logical data model) to which a property belongs. The Object Class is expressed by an Object Class Term;
* "Property Term" identifies the characteristics of the Object Class;
* "Representation Term" categorizes the format of the data element into broad types;
* "Tag Name" is the name of corresponding component defined in the PVP-XML Schema;
* "Namespace" is the namespace of the corresponding component defined in PVP-XML Schema (PVP);
* "Status" provides the information when the data entity is added, modified or deprecated; and
* "Remarks" provides the information which PVP office, the component is used by.

The Enumeration Values dictionary is composed of:

* "Tag Name" is the name of corresponding component defined in PVP-XML Schemas;
* "Namespace" is the namespace in which corresponding component is defined;
* "Enumeration Value" is the list of values specified in the corresponding component; and
* "Description" provides definition of each value.

Participating members in the development of a prototype electronic form are invited to comment on the PVP Data Dictionary presented in Annex II to this document, by October 24, 2014.

[PVP XML Schema](https://www3.wipo.int/confluence/display/UP/2.3.+PVP+XML+Schemas)

The PVP XML Schema forms the set of XML schemas for data components defined in the PVP Data Dictionary. The XML schemas are intended to be used for communications between the participating offices and breeders. The PVP XML schema is using ST.96 Components schemas.

Participating members in the development of a prototype electronic form are invited to comment on the PVP XML Schema presented on the Wiki space UPOV\_EAS, by October 24, 2014.

[PVP XML Schema Technical Specifications](https://www3.wipo.int/confluence/display/UP/2.4.+PVP+XML+Schema+Technical+Specifications)

The Schema Technical Specification is to provide technical documentation on XML Schemas which are defined in PVP-XML. It will help developers to have a better understanding on the contents and structure of the XML Schemas.

Participating members in the development of a prototype electronic form are invited to comment on the PVP XML Schema Technical Specifications, presented on the Wiki space UPOV\_EAS, by October 24, 2014.

# Next sTeps

On the basis of the comments received, a new draft will be submitted for comments by experts involved in the project, through a second round of discussions, to take place in November 2014 via the Wiki space UPOV\_EAS.

Participating members will be invited to provide data in order to test the PVP-XML Schema to ensure compatibility with their system. Therefore participants will need to allocate time to comment and test the import/ export facility of PVP data to/ from their internal system to the UPOV database Form (from October 2014 to October 2015)

[Annexes follow]

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ANNEX I

XML DESIGN RULES AND CONVENTIONS (DRCS) FOR THE PLANT VARIETY PROTECTION INFORMATION

Introduction

In principle, UPOV uses the XML Design Rules and Conventions (WIPO Standard ST.96 Annex I) as a basis for the creation and use of XML schemas and instances regarding data exchange among Plant Variety Protection (PVP) community.

Since ST.96 does not cover specific PVP requirements, additional rules are defined to supplement existing rules defined in WIPO Standard ST.96 Annex I available at: http://www.wipo.int/export/sites/www/standards/en/xml\_material/st96/annex-i/v1-0/03-96-i.pdf .

This document is intended for use in conjunction with ST.96 XML Design Rules and Conventions by PVP community. The PVP community should use this document as the point of reference for approved design rules and conventions with which all XML schemas must follow in order to be considered ST.96/PVP-XML compatible. PVP offices can use this document along with WIPO Standard ST.96 Annex I as a guideline for developing their internal design rules. The ST.96 XML Design Rules and Conventions and this document should be consulted prior to beginning development of a new XML schema or modifying an existing XML schema. After an XML schema has been developed, the two documents should be used to check the conformity of the schema with design rules.

In this document, the term Schema refers to XML schema defined in PVP-XML; and the term component refers to Type, element or attribute.

All design rules are normative. In order to differentiate ST.96 Design rules from UPOV Design rules, UPOV Design rules should be identified using a different naming convention. UPOV Design rules are identified through a prefix of [XX-nn-UPOV].

(a) The value “XX” is a prefix to categorize the type of rule as follows:

– GD for general design rules;

– SD for schema design rules; and

– ID for instance design rules.

(b) The value “nn” indicates the sequential number of the rule.

For example, the rule identifier [SD-01-UPOV] identifies the first UPOV schema design rule.

General Design Rules

Rules [GD-01] to [GD-32] of WIPO Standard ST.96 Annex 1 SHOULD be applied for the creation and use of XML schemas and instances regarding data exchange among PVP community.

Schema Design Rules

The following rules SHOULD supplement Rules [SD-01] to [SD-61] of WIPO Standard ST.96 Annex 1. The whole set of schema design rules except SD-40 SHOULD be applied when developing PVP XML schemas.

| **Rule ID** | **Rule** |
| --- | --- |
| [SD-01-UPOV] | PVP Component schema modules MUST use the import construct to refer to Common Component Schema Modules |
| [SD-02-UPOV] | PVP schema modules MUST NOT refer to Patent, Trademark, Design component schema modules |
| [SD-03-UPOV] | The names for UPOV namespaces MUST have the following structure:  [http://www.upov.int/XMLSchema/<major](http://www.upov.int/XMLSchema/%3cmajor)>  And <major> is the major version number. |
| [SD-04-UPOV] | Schemas should use “pvp” as namespace prefix for plant variety components |
| [SD-05-UPOV] | Plant Variety Component Schemas MUST use :  [http://www.upov.int/XMLSchema/<major](http://www.upov.int/XMLSchema/%3cmajor)>  And <major> is the major version number.  As target namespace. |
| [SD-07-UPOV] | PVP XML schemas are considered as ST.96 implementation schemas and SHOULD therefore follow rules specified in ST.96 Annex V. Schema Implementation Guidelines. |

Instance Design Rules

The following rules SHOULD supplement Rules [ID-01] to [ID-10] of WIPO Standard ST.96 Annex I. The whole set of instance design rules SHOULD be applied when creating new XML instances.

| **Rule ID** | **Rule** |
| --- | --- |
| [ID-01-UPOV] | The prefix “pvp” is recommended for Plant Variety Component schema constructs. |

Appendix C-UPOV. LIST OF ACRONYMS AND ABBREVIATIONS

|  |  |
| --- | --- |
| PBR | Plant Breeder’s rights |
| PVP | Plant Variety Protection |
| PLP | Plant Patent |
| NLI | National List |
| GRC | Genetic Resources Center |
| DUS | Distinctness Uniformity Stability |

[Annex II follows]

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ANNEX II A

ELEMENTS AND ATTRIBUTES DICTIONARY

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Dictionary Entry** | **Description** | **Object Class** | **Property Term** | **Representation Term** | **Tag Name** | **Name**  **-space** | **Status** | **Remarks** |
| Application Form. Additional DocumentBag | Other forms and documents attached (UPOV A1:10) | Application Form | Additional DocumentBag | - | AdditionalDocumentBag | PVP | Added on:2014-09-18+02:00 |  |
| PVP.Applicant | Applicant or holder details | PVP | Applicant | - | Applicant | PVP | Added on:2014-09-18+02:00 |  |
| PVP.ApplicantBag | Collection of applicants | PVP | ApplicantBag | - | ApplicantBag | PVP | Added on:2014-09-18+02:00 |  |
| Application.Category.Category | Category of Application | Application | Category | Category | ApplicationCategory | PVP | Added on:2014-09-18+02:00 |  |
| Variety.BotanicalName.Text | Botanical Name (ST.96 pat:PlantName/pat:BotanicalName) | Variety | Botanical Name | Text | BotanicalNameText | PVP | Added on:2014-09-18+02:00 |  |
| PVP.Breeder | – The person who bred, or discovered and developed, a variety, – The person who is the employer of the aforementioned person or who has commissioned the latter’s work, where the laws of the relevant Contracting Party so provide, or  – The successor in title of the first or second aforementioned person, as the case may be | PVP | Breeder | - | Breeder | PVP | Added on:2014-09-18+02:00 |  |
| PVP.BreederBag | Collection of breeders | PVP | BreederBag | - | BreederBag | PVP | Added on:2014-09-18+02:00 |  |
| Breeder.Category.Category | Category of Breeder (UPOV-A1 5(c)) | Breeder | Category | Category | BreederCategory | PVP | Added on:2014-09-18+02:00 |  |
| Breeder.Category.Text | Specification of how the variety was transferred by the person(s) who bred, or discovered and developed the variety to the applicant by other | Breeder | Category | Text | BreederCategoryText | PVP | Added on:2014-09-18+02:00 |  |
| Breeder.Reference.Text | Breeder's reference to the variety (UPOV-A1 4(b)) | Breeder | Reference | Text | BreederReferenceText | PVP | Added on:2014-09-18+02:00 |  |
| PVP.Breeding CountryBag | State(s) in which the variety was bred (UPOV-A1 8(b)) | PVP | Breeding CountryBag | - | BreedingCountryBag | PVP | Added on:2014-09-18+02:00 |  |
| PVP.Breeding Prima Facie Case | Prima facie case for breeding | PVP | Breeding Prima Facie Case | - | BreedingPrimaFacieCase | PVP | Added on:2014-09-18+02:00 | AU |
| Breeding Procedure.Information | Breeding procedures used to initiate the new variety | Breeding Procedure | Information | - | BreedingProcedureInformation | PVP | Added on:2014-09-18+02:00 | AU |
| PVP.Breeding System | Breeding system of the species | PVP | Breeding System | - | BreedingSystem | PVP | Added on:2014-09-18+02:00 | AU |
| Breeding System.Category.Category | Category of breeding system | Breeding System | Category | Category | BreedingSystemCategory | PVP | Added on:2014-09-18+02:00 | AU |
| PVP.Breeding System.Text | Description of breeding system of the species | PVP | Breeding System | Text | BreedingSystemText | PVP | Added on:2014-09-18+02:00 | AU |
| Candidate Characteristics.Description | To be provided | Candidate Characteristics | Description | - | CandidateCharactersiticDescription | PVP | Added on:2014-09-18+02:00 | AU |
| Examination.Certificate Fee.Indicator | Flag to indicate if the certificate fee is to also be paid | Examination | Certificate Fee | Indicator | CertificateFeeIndicator | PVP | Added on:2014-09-18+02:00 | AU |
| Document.Certified Copy. Indicator | Flag to indicate if the document is a certified copy | Document | Certified Copy | Indicator | CertifiedCopyIndicator | PVP | Added on:2014-09-18+02:00 |  |
| Class.Limitation.Category | Category of class limitation | Class | Limitation | Category | ClassLimitationCategory | PVP | Added on:2014-09-18+02:00 | US |
| Class.Limitation.Indicator | Flag to indicate if seed of this variety be limited as to number of classes | Class | Limitation | Indicator | ClassLimitationIndicator | PVP | Added on:2014-09-18+02:00 | US |
| Commencement.Date.Date | Date of commencement of the DUS examination | Commencement | Date | Date | CommencementDate | PVP | Added on:2014-09-18+02:00 |  |
| Comparator.Characteristic Description | Description of the 'most similar varieties of common knowledge (VCK)' (comparators) | Comparator | Characteristic Description | - | ComparatorCharactersiticDescription | PVP | Added on:2014-09-18+02:00 | AU |
| Comparator.Name.Name | Name of comparator | Comparator | Name | Name | ComparatorName | PVP | Added on:2014-09-18+02:00 | AU |
| Parent. Comparison | Comparison Item | Parent | Comparison | - | Comparison | PVP | Added on:2014-09-18+02:00 | AU |
| Comparison.Characteristic | List the characteristics or combination of characteristics which make your variety (the candidate) clearly distinguishable from its parents/ source material | Comparison | Characteristic | - | ComparisonCharacteristic | PVP | Added on:2014-09-18+02:00 | AU |
| Application Form.Declaration.Text | Declaration statement (UPOV-A1:11) | Application Form | Declaration | Text | DeclarationText | PVP | Added on:2014-09-18+02:00 |  |
| Variety.Denomination | A generic designation that enables the variety to be identified (UPOV-A1:4) | Variety | Denomination | - | Denomination | PVP | Added on:2014-09-18+02:00 |  |
| Denomination.Form.Category | Denomination form | Denomination | Form | Category | denominationFormCategory | PVP | Added on:2014-09-18+02:00 | CPVO |
| Plant Variety.Other Name.Name | Other name under which the variety has been known | Plant Variety | Other Name | Name | OtherPlantVarietyName | PVP | Added on:2014-09-18+02:00 | AU |
| Denomination.Synonym | Alternative name for a variety. Please note that once accepted, the synonym is also protected. | Denomination | Synonym | - | DenominationSynonym | PVP | Added on:2014-09-18+02:00 | AU |
| Denomination.Transcription.Text | Conversion of the denomination into another name following some transcription rules | Denomination | Transcription | Text | DenominationTranscriptionText | PVP | Added on:2014-09-18+02:00 | JP |
| Denomination.Transliteration.Text | Transliteration of the denomination into another writing system | Denomination | Transliteration | Text | DenominationTransliterationText | PVP | Added on:2014-09-18+02:00 | JP |
| Distinctness.Prima Facie Case | Prima facie case for distinctness | Distinctness | Prima Facie Case | - | DistinctnessPrimaFacieCase | PVP | Added on:2014-09-18+02:00 | AU |
| PVP.Document | Other form/document attached (UPOV A1:10) | PVP | Document | - | Document | PVP | Added on:2014-09-18+02:00 |  |
| Document.Category.Category | Type of the attached document | Document | Category | Category | DocumentCategory | PVP | Added on:2014-09-18+02:00 |  |
| PVP.Domestic Trial | Details on trial grown in territory of application | PVP | Domestic Trial | - | DomesticTrial | PVP | Added on:2014-09-18+02:00 | AU |
| PVP.Domestic TrialBag | Collection of trials grown in territory of application | PVP | Domestic TrialBag | - | DomesticTrialBag | PVP | Added on:2014-09-18+02:00 | AU |
| PVP.DUS Information | Details of the proposed DUS test - Usually applicants conduct comparative growing trials in Australia. However the PBR office has the discretion to accept overseas DUS test reports provided certain conditions are met (details available on the PBR website). Some taxa must be trialled in Australia - It is the policy of the PBR office to not accept overseas data for the following taxa due to the wide genotype by environment interactions that have been previously experienced. Varietal descriptions from overseas trials have consistently been different from those obtained from trials grown under Australian conditions. Consequently, for the following taxon a full DUS trial must be conducted in Australia: Solanum tuberosum (Potato). | PVP | DUS Information | - | DUSInformation | PVP | Added on:2014-09-18+02:00 | AU |
| Employer Funding Agency Notification.Category.Category | Are you required, under any agreement with your current employer/funding agency, to inform them of your intention to acquire rights to this variety? | Employer Funding Agency Notification | Category | Category | EmployerFundingAgencyNotificationCategory | PVP | Added on:2014-09-18+02:00 | AU |
| Application Form.Enclosed Copy Material Transfer Agreement.Indicator | Flag to indicate if a copy of material transfer agreement is enclosed | Application Form | Enclosed Copy Material Transfer Agreement | Indicator | EnclosedCopyMaterialTransferAgreementIndicator | PVP | Added on:2014-09-18+02:00 | AU |
| Breeder.Entitlement.Text | Breeder Entitlement information | Breeder | Entitlement | Text | EntitlementText | PVP | Added on:2014-09-18+02:00 | AU |
| DUS Trial.Estimated Availability.Date | Estimated availability date for DUS trial | DUS Trial | Estimated Availability | Date | EstimatedAvailabilityDate | PVP | Added on:2014-09-18+02:00 | AU |
| Application Form.Examination | Technical examination of the variety (UPOV-A1:9) | Application Form | Examination | - | Examination | PVP | Added on:2014-09-18+02:00 |  |
| Examination.Category.Category | Category of examination | Examination | Category | Category | ExaminationCategory | PVP | Added on:2014-09-18+02:00 | AU |
| Examination.Declaration.Text | Declartation statement related to technical examination (UPOV-A1:9(b), 9(c)) | Examination | Declaration | Text | ExamniationDeclarationText | PVP | Added on:2014-09-18+02:00 |  |
| Examination.Preferred Date.Date | Date the applicant wishes the field examination to occur | Examination | Preferred Date | Date | ExaminationPreferredDate | PVP | Added on:2014-09-18+02:00 | AU+CA |
| Examination.Status.Category | Status of the technical examination of the variety (UPOV-A1:9(a)) | Examination | Status | Category | ExaminationStatusCategory | PVP | Added on:2014-09-18+02:00 |  |
| Examination.Start Date.Date | Completed Date or Started Date (UPOV-A1:9(a)) | Examination | Start Date | Date | ExaminationStartDate | PVP | Added on:2014-09-18+02:00 |  |
| Examination.Completion Date.Date | Completed Date or Started Date (UPOV-A1:9(a)) | Examination | Completion Date | Date | ExaminationCompletionDate | PVP | Added on:2014-09-18+02:00 |  |
| First Made Observations.Date.Date | Date(s) when observations were first made | First Made Observations | Date | Date | FirstMadeObservationsDate | PVP | Added on:2014-09-18+02:00 |  |
| First Made Observations.Location | Location where observations were first made (property and/or town and country) | First Made Observations | Location | - | FirstMadeObservationsLocation | PVP | Added on:2014-09-18+02:00 |  |
| First Sale.Date.Date | Date of first sale (UPOV-A1: 8(78)(d)(v),UPOV-A1: 8(91)(d)(v)) | First Sale | Date | Date | FirstSaleDate | PVP | Added on:2014-09-18+02:00 |  |
| First Sale.Indicator.Indicator | Flag to indicate if the variety has been sold by or with the consent of the breeder ( UPOV-A1: 8(78)(d) or UPOV-A1: 8(91)(d) ) | First Sale | Indicator | Indicator | FirstSaleIndicator | PVP | Added on:2014-09-18+02:00 |  |
| Generation.Limitation.Indicator | Flag to indicate if seed of this variety be limited as to number of generations | Generation | Limitation | Indicator | GenerationLimitationIndicator | PVP | Added on:2014-09-18+02:00 | US |
| Generation.Total Number. Number | The number of generations the variety has been maintained in its present form | Generation | Total Number | Number | GenerationTotalNumber | PVP | Added on:2014-09-18+02:00 | AU |
| Gene Technology Regulator. Licence.Number | Licence number of Gene Technology Regulator | Gene Technology Regulator | Licence | Number | GeneTechnologyRegulatorLicenceNumber | PVP | Added on:2014-09-18+02:00 | AU |
| Genetically Modified Organism.Information | Flag to indicate if the variety is a Genetically Modified Organism | Genetically Modified Organism | Information | - | GeneticallyModifiedOrganismInformation | PVP | Added on:2014-09-18+02:00 | AU |
| UPOV Code.Genus | An alphabetic element of five letters (e.g. XXXXX) indicating the genus of plant (ST.96 pat:PlantName/pat:UPOVCode/pat:Genus) | UPOV Code | Genus | - | Genus | PVP | Added on:2014-09-18+02:00 |  |
| GRC.Information | Name and location of the Genetic Resources Centre (GRC) where propagating material of the variety will be maintained - A Genetic Resource Centre is a place considered to be suitable for the storage and maintenance of germplasm material and may include a part of a nursery set aside for the purpose of maintaining stock plants. | GRC | Information | - | GRCInformation | PVP | Added on:2014-09-18+02:00 | AU |
| GRC.Location | Location of the Genetic Resources Centre (GRC) where propagating material of the variety | GRC | Location | - | GRCLocation | PVP | Added on:2014-09-18+02:00 | AU |
| Application Form. International PBR Application | Details of an International PBR Application (UPOV-A1:6) | Application Form | International PBR Application | - | InternationalPBRApplication | PVP | Added on:2014-09-18+02:00 |  |
| Application Form. International PBR ApplicationBag | Collection of International PBR Applications (UPOV-A1:6) | Application Form | International PBR ApplicationBag | - | InternationalPBRApplicationBag | PVP | Added on:2014-09-18+02:00 |  |
| Gene Technology Regulator. Licence Date.Date | Licence date of Gene Technology Regulator | Gene Technology Regulator | Licence Date | Date | GeneTechnologyRegulatorLicenceDate | PVP | Added on:2014-09-18+02:00 | AU |
| International PBR Application.Filing Date.Date | Date of lodgment in country (UPOV-A1:6(b)(i)) | International PBR Application | Filing Date | Date | FilingDate | PVP | Added on:2014-09-18+02:00 |  |
| Variety.Main Selection Criteria.Text | Main selection criteria used to develop the variety | Variety | Main Selection Criteria | Text | MainSelectionCriteriaText | PVP | Added on:2014-09-18+02:00 | AU |
| Variety.Maternal Parent ComparisonBag | Comparison with maternal or source germplasm/variety | Variety | Maternal Parent ComparisonBag | - | MaternalParentComparisonBag | PVP | Added on:2014-09-18+02:00 | AU |
| Variety.Maternal Parent Information | To be provided | Variety | Maternal Parent Information | - | MaternalParentInformation | PVP | Added on:2014-09-18+02:00 | AU |
| Variety.Most Similar ComparisonBag | Comparison with most similar variety of common knowledge (VCK) | Variety | Most Similar ComparisonBag | - | MostSimilarVarietyComparisonBag | PVP | Added on:2014-09-18+02:00 | AU |
| Examination.Nominated Date.Date | Nominated date for examiniation | Examination | Nominated Date | Date | NominatedExaminationDate | PVP | Added on:2014-09-18+02:00 | AU |
| Not Enclosed Copy Material Transfer Agreement.Reason.Text | Reason why a copy of material transfer agreement is not enclosed | Not Enclosed Copy Material Transfer Agreement | Reason | Text | NotEnclosedCopyMaterialTransferAgreementReasonText | PVP | Added on:2014-09-18+02:00 | AU |
| Application Form.Noxious Weed.Text | Details of noxious weed provided | Application Form | Noxious Weed | Text | NoxiousWeedText | PVP | Added on:2014-09-18+02:00 | AU |
| Observed Genetic Variant.Indicator.Indicator | Flag to indicate if genetic variants are observed or expected during reproduction and multiplication | Observed Genetic Variant | Indicator | Indicator | ObservedGeneticVariantIndicator | PVP | Added on:2014-09-18+02:00 | US |
| Stage.Observed Characteristics | Description of observed characteristics at current stage | Stage | Observed Characteristics | - | ObservedStageCharacteristics | PVP | Added on:2014-09-18+02:00 | AU |
| Off Type.Occurence.Text | The occurrence of any off types | Off Type | Occurrence | Text | OffTypeOccurenceText | PVP | Added on:2014-09-18+02:00 | AU |
| Only Certified Seed. Indicator. Indicator | Flag to indicate if only certified seeds are submitted | Only Certified Seed | Indicator | Indicator | OnlyCertifiedSeedIndicator | PVP | Added on:2014-09-18+02:00 | US |
| Other Conducted Work.Location | Where other work was conducted (if applicable) | Other Conducted Work | Location | - | OtherConductedWorkLocation | PVP | Added on:2014-09-18+02:00 | AU |
| Variety.Other Parent ComparisonBag | Comparison with other parent(s). If unsure, list putative pollen parents (attach additional sheets if necessary) | Variety | Other Parent ComparisonBag | - | OtherParentComparisonBag | PVP | Added on:2014-09-18+02:00 | AU |
| Variety.Other Parent Information | To be provided | Variety | Other Parent Information | - | OtherParentInformation | PVP | Added on:2014-09-18+02:00 | AU |
| Variety.Other Similar ComparisonBag | Comparison with other similar varieties of common knowledge (VCK) | Variety | Other Similar ComparisonBag | - | OtherSimilarVarietyComparisonBag | PVP | Added on:2014-09-18+02:00 | AU |
| Overseas DUS Trial.Information | Details on overseas DUS test report | Overseas DUS Trial | Information | - | OverseasDUSTrialInformation | PVP | Added on:2014-09-18+02:00 | AU |
| Variety.Parent Material Information | Information on parent material | Variety | Parent Material Information | - | ParentMaterialInformation | PVP | Added on:2014-09-18+02:00 | AU |
| Parent PBR.Protected In Country.Indicator | To be provided | Parent PBR | Protected In Country | Indicator | ParentPBRProtectedInCountryIndicator | PVP | Added on:2014-09-18+02:00 | AU |
| Parent Variety.Breeder Name.Name | Breeder name of parent variety | Parent Variety | Breeder Name | Name | ParentVarietyBreederName | PVP | Added on:2014-09-18+02:00 | AU |
| Parent Variety.Name.Name | Name of parent variety | Parent Variety | Name | Name | ParentVarietyName | PVP | Added on:2014-09-18+02:00 | AU |
| Parent Variety.Origin | Origin and parentage of the variety | Parent Variety | Origin | - | ParentVarietyOrigin | PVP | Added on:2014-09-18+02:00 | AU |
| Plant.Common Name.Text | Plant Common Name (UPOV-A1:4(b)) (ST.96 pat:PlantName/pat:PlantCommonName) | Plant | Common Name | Text | PlantCommonNameText | PVP | Added on:2014-09-18+02:00 |  |
| Plant.Name | Plant Name (UPOV-A1:4) ((ST.96 pat:PlantName) | Plant | Name | - | PlantName | PVP | Added on:2014-09-18+02:00 |  |
| Plant.Total Number.Number | To be provided | Plant | Total Number | Number | PlantTotalNumber | PVP | Added on:2014-09-18+02:00 | AU |
| Variety.Prima Facie Case | Prima facie case for breeding and prima facie case for distinctness - List the characteristics or combination of characteristics which make your variety (the candidate) clearly distinguishable from its parents/ source material and the 'most similar varieties of common knowledge (VCK)' (the comparators). Characteristics must be capable of precise definition to establish a prima facie case. Please attach a photograph of the variety showing its distinguishing features. | Variety | Prima Facie Case | - | PrimaFacieCase | PVP | Added on:2014-09-18+02:00 | AU |
| Claimed Priority.Indicator.Indicator | Flag to indicate if priority is claimed in respect of the application (UPOV-A1:7) | Claimed Priority | Indicator | Indicator | PriorityClaimedIndicator | PVP | Added on:2014-09-18+02:00 |  |
| Procedure.Information.Text | Brief description of the procedures used in developing the variety | Procedure | Information | Text | ProcedureInformationText | PVP | Added on:2014-09-18+02:00 | AU |
| Propagation.Mode.Text | Mode of propagation between generations | Propagation | Mode | Text | PropagationModeText | PVP | Added on:2014-09-18+02:00 | AU |
| Variety.Proposed Denomination.Text | Proposed denomination (UPOV-A1:4(a)) | Variety | Proposed Denomination | Text | ProposedDenominationText | PVP | Added on:2014-09-18+02:00 |  |
| Variety.Proposed DUS Test Category.Category | The type of proposed DUS trial | Variety | Proposed DUS Test Category | Category | ProposedDUSTestCategory | PVP | Added on:2014-09-18+02:00 | AU |
| Provided Relevant Passport Information. Indicator.Indicator | Flag to indicate if relevant passport data was provided with this application | Provided Relevant Passport Information | Indicator | Indicator | ProvidedRelevantPassportInformationIndicator | PVP | Added on:2014-09-18+02:00 | AU |
| Selection.Cycle Total Number.Number | Number of cycles of selection | Selection | Cycle Total Number | Number | SelectionCycleTotalNumber | PVP | Added on:2014-09-18+02:00 | AU |
| Seperately Supplied Physical Media.Indicator.Indicator | Flag to indicate if physical media is supplied seperately | Seperately Supplied Physical Media | Indicator | Indicator | SeperatelySuppliedPhysicalMediaIndicator | PVP | Added on:2014-09-18+02:00 | AU |
| PBR.Share Rate.Rate | If more than one benificiary, participation of each | PBR | Share Rate | Rate | ShareRate | PVP | Added on:2014-09-18+02:00 | KR,JP |
| Variety.Sold In Country | Name of country in which the variety has been sold (UPOV-A1:8) | Variety | Sold In Country | - | SoldInCountry | PVP | Added on:2014-09-18+02:00 |  |
| Source Material.Agreement Category.Category | To be provided | Source Material | Agreement Category | Category | SourceMaterialAgreementCategory | PVP | Added on:2014-09-18+02:00 | AU |
| Source Material.Collection Category.Category | To be provided | Source Material | Collection Category | Category | SourceMaterialCollectionCategory | PVP | Added on:2014-09-18+02:00 | AU |
| Source Material.Selection Information | Selection from `source' material' | Source Material | Selection Information | - | SourceMaterialSelectionInformation | PVP | Added on:2014-09-18+02:00 | AU |
| Plant.Species | A three-letter element (e.g. YYY) indicating the species of plant (ST.96 pat:PlantName/pat:UPOVCode/pat:Species) | Plant | Species | - | Species | PVP | Added on:2014-09-18+02:00 |  |
| Specimen.Collection Date.Date | Indicated time of flowering and/or ideal time for a specimen to be collected and sent to Registration Authority ( ACRA- Australia) | Specimen | Collection Date | Date | SpecimenCollectionDate | PVP | Added on:2014-09-18+02:00 | AU |
| Application.Stage.Category | Current status of application (UPOV-A1:6(a)(iii), 6(b)(iii)) | Application | Stage | Category | StageCategory | PVP | Added on:2014-09-18+02:00 |  |
| Submission.Date.Date | Date of examination submission | Submission | Date | Date | SubmissionDate | PVP | Added on:2014-09-18+02:00 | JP |
| Submission.Method.Category | Description of how the examination was submitted | Submission | Method | Category | SubmissionMethodCategory | PVP | Added on:2014-09-18+02:00 | JP |
| Submitted Seed Spawn.Quantity.Quantiy | Quantity of seed or spawn to be submitted | Submitted Seed Spawn | Quantity | Quantity | SubmittedSeedSpawnQuantity | PVP | Added on:2014-09-18+02:00 | JP |
| Application.Submitters Own Reference | Holder of the customer's own reference for tracking the service request | Application | Submitters Own Reference | - | SubmittersOwnReference | PVP | Added on:2014-09-18+02:00 | AU |
| Plant.SubSpecies | Where relevant, a further element of up to three characters (e.g. ZZ1) indicating a sub- specific unit of plant (ST.96 pat:PlantName/pat:UPOVCode/pat:SubSpecies) | Plant | SubSpecies | - | SubSpecies | PVP | Added on:2014-09-18+02:00 |  |
| Supplier Owner.Notification.Category | Type of obligation to notify the supplier/owner of the original germplasm about your intention to obtain PBR | Supplier Owner | Notification | Category | SupplierOwnerNotificationCategory | PVP | Added on:2014-09-18+02:00 | AU |
| DUS Trial.Test Date.Date | Test date of the examination | DUS Trial | Test Date | Date | TestDate | PVP | Added on:2014-09-18+02:00 | AU |
| Trademark.Information.Text | Trademark information | Trademark | Information | Text | TrademarkInformationText | PVP | Added on:2014-09-18+02:00 | CH |
| Trademark.Waiver | Trademark waiver | Trademark | Waiver | - | TrademarkWaiver | PVP | Added on:2014-09-18+02:00 | BZ |
| Commercial Denomination.Synonym | Commercial Synonym/Trade Name | Commercial Denomination | Synonym | - | CommercialDenominationSynonym | PVP | Added on:2014-09-18+02:00 | AU |
| Trial.Location.Text | Location where trial tooks place | Trial | Location | Text | TrialLocationText | PVP | Added on:2014-09-18+02:00 | AU |
| Plant.UPOV Code | UPOV Code is to enhance the usefulness of the UPOV Plant Variety Database by overcoming the problem of synonyms for plant taxa; synonyms for the same plant taxa are attributed the same UPOV code (ST.96 pat:PlantName/pat:UPOVCode) | Plant | UPOV Code | - | UPOVCode | PVP | Added on:2014-09-18+02:00 |  |
| Variety.Application Territory Sale LocationBag | Has the variety been sold in territory application with the breeder's consent?(UPOV-A1:8(a)) | Variety | Application Territoy Sale LocationBag | - | VarietyApplicationTerritorySaleLocationBag | PVP | Added on:2014-09-18+02:00 |  |
| Variety.Name.Name | Denomination or breeder's reference (UPOV-A1:6(a)(iv)) | Variety | Name | Name | VarietyName | PVP | Added on:2014-09-18+02:00 |  |
| Variety.Name.Category | Indicates if the variety name is denomination or breeder's reference | Variety | Name | Category | varietyNameCategory | PVP | Added on:2014-09-18+02:00 | JP |
| Variety.Origin | Origin of the variety | Variety | Origin | - | VarietyOrigin | PVP | Added on:2014-09-18+02:00 | AU |
| Variety.Origin.Category | Type of variety origin | Variety | Origin | Category | VarietyOriginCategory | PVP | Added on:2014-09-18+02:00 | AU |
| Variety.Origin.Text | Free text description of origin of the variety | Variety | Origin | Text | VarietyOriginText | PVP | Added on:2014-09-18+02:00 | AU |
| Variety.Other Sale LocationBag | Has the variety been sold in other territories with the breeder's consent?(UPOV-A1:8(d)) | Variety | Other Sale LocationBag | - | VarietyOtherSaleLocationBag | PVP | Added on:2014-09-18+02:00 |  |
| Variety.Uniformity Stability Indicator.Indicator | Flag to indicate uniformity and stability of the variety | Variety | Uniformity Stability Indicator | Indicator | VarietyUniformityStabilityIndicator | PVP | Added on:2014-09-18+02:00 | AU |
| Variety.Uniformity Stability Test Description | Description of Uniformity Stability Test | Variety | Uniformity Stability Test Description | - | VarietyUniformityStabilityTestDescription | PVP | Added on:2014-09-18+02:00 | AU |
| Application Form | Application form data | Application Form | - | - | ApplicationForm | PVP | Added on:2014-09-18+02:00 |  |
| Commercialization.Convention.Category | Indicates if the applied convention is 78 or 91 | Commercialization | Convention | Category | conventionCategory | PVP | Added on:2014-09-18+02:00 |  |
| Variety.Denomination.Image.URI | Image representation of the original denomination | Variety | Denomination Image | URI | DenominationImage | PVP | Added on:2014-09-18+02:00 |  |
| DUS Examination.Duration.Text | Duration: (Seasons/years) | DUS Examination | Duration | Text | DUSExaminationDurationText | PVP | Added on:2014-09-29+02:00 | VN |
| DUS Examination.Place.Text | Location where the DUS examination takes place | DUS Examination | Place | Text | DUSExaminationPlaceText | PVP | Added on:2014-09-29+02:00 | VN |
| DUS Examination.Result.Text | Description of DUS examination results | DUS Examination | Result | Text | DUSExaminationResultText | PVP | Added on:2014-09-29+02:00 | VN |
| DUS Examination.Suggestion,Text | Description of DUS examination suggestions | DUS Examination | Suggestion | Text | DUSExaminationSuggestionText | PVP | Added on:2014-09-29+02:00 | VN |
| Source Material.Discovery Date. Date | Date of discovery of source material | Source Material | Discovery Date | Date | SourceMaterialDiscoveryDate | PVP | Added on:2014-10-07+02:00 |  |
| Source Material.Discovery Location | Location where source material has been discovered | Source Material | Discovery Location | - | SourceMaterialDiscoveryLocation | PVP | Added on:2014-10-07+02:00 |  |

[Annex II B follows]

EAF/4/3

ANNEX II B

ENUMERATION VALUES DICTIONARY

|  |  |  |  |
| --- | --- | --- | --- |
| **Tag Name** | **Namespace** | **Enumeration Value** | **Description** |
| **ApplicationCategoryType** | **PVP** | Official variety list | General term to cover an official register, for example, of varieties admitted to trade (e.g. National List, Official Catalogue etc.). |
| Plant variety protection | Plant Variety Protection (PVPA) (the UPOV style protection operated by the USDA) |
| Plant patent | Plant Patent (PPA) (USPTO) |
| Utility patent | Utility Patent (applied to plants) (Patent Law, America Invents Act) (USPTO) |
| Protection | Special titles of protection, plant patents and industrial patents |
| Bilateral agreements for testing | Bilateral agreements for testing |
| **BreederCategoryType** | **PVP** | Applicant | Applicant |
| Breeder | Breeder |
| Applicant- transferred by contract | Applicant- transferred by contract |
| Applicant- transferred by succession | Applicant- transferred by succession |
| Applicant- transferred by other | Applicant- transferred by other |
| **BreedingSystemCategoryType** | **PVP** | Not Known | Breeding system not known |
| Self Pollination | Self Pollination |
| Often Self Pollinated | Often Self Pollinated |
| Cross Pollinated | Cross Pollinated |
| Apomixis | Apomixis |
| Other | Other |
| **ClassLimitationCategoryType** | **PVP** | Certified | Certified |
| Foundation | Foundation |
| Registered | Registered |
| **ConventionCategoryType** | **PVP** | 78 convention | 78 convention |
| 91 convention | 91 convention |
| **DenominationFormCategoryType** | **PVP** | Fancy name | Fancy name |
| Code | Code |
| **DocumentCategoryType** | **PVP** | Variety description | Attach the description of the variety on the special Technical Questionnaire for the species to which the variety belongs |
| Power of attorney | If one joint applicant has been authorized to act for the other joint applicants or a rocedural representative, agent or proxy has been named, attach the power of attorney referred to |
| Priority claim | If the priority of the first application is claimed, a certified copy of the documents which constitute that application must be forwarded to the Authority within the prescribed time in the applicable law (minimum of three months from the date of filing of the present application) |
| Technical report | Technical report |
| Payment evidence of the application fee | Proof that the application fee has been paid |
| Photograph | Photograph |
| Other | Other |
| Application part 1 | Application part 1 |
| Qualified person | Qualified person |
| Transfer of ownership | Approval of the transfer of a right to protection |
| Breeding procedures | Breeding procedures |
| Amendment | Amendment |
| Application part 2 | Application part 2 |
| Application for variety registration | Application for variety registration |
| Designation of a procedural representative | Communication of natural persons authorized to represent a legal person |
| Prior marketing | Form containing more detailed information on prior marketing |
| Variety denomination | Application form for a variety denomination |
| New variety declaration | Declaration signed by the applicant that to the best of his knowledge the variety is new |
| Origin and breeding history of the variety | Exhibit A. Origin and Breeding History of the Variety |
| Statement of distinctness | Exhibit B. Statement of Distinctness |
| Objective description of variety | Exhibit C. Objective Description of Variety |
| Additional description of the variety | Exhibit D. Additional Description of the Variety |
| Statement of the basis of the owner's ownership | Exhibit E. Statement of the Basis of the Owner's Ownership |
| Payment voucher for priority requirement | Payment voucher for priority requirement |
| Entitlement deed of assignment | CPVO 0.5.04 |
| **ExaminationCategoryType** | **PVP** | Standard examination | Standard examination |
| Application based on oversea data | Application based on oversea data |
| Multiple application discount examination | Multiple application discount examination |
| Centralised testing center examination | Centralised testing center examination |
| **ExaminationStatusCategoryType** | **PVP** | Completed | Completed |
| In progress | In progress |
| Not yet been started | Not yet been started |
| **GRCLocationCategoryType** | **PVP** | At address of the applicant | At address of the applicant (only if resident in Australia) |
| At address of the Australian agent | At address of the Australian agent |
| Other | Other (Street address required) |
| **NotificationCategoryType** | **PVP** | Not applicable | Not applicable |
| No obligation | No obligation |
| Yes notified | Yes notified |
| **ProposedDUSTestCategoryType** | **PVP** | Comparative trial | Comparative trial in Australia, including the candidate variety and the most similar varieties of common knowledge |
| Verification trial | Verification trial in Australia, including the candidate variety only, grown to confirm the states of expression provided in an overseas DUS test report |
| Based solely on an overseas DUS test report | Based solely on an overseas DUS test report |
| **SourceMaterialAgreementCategoryType** | **PVP** | Subject to a Material Transfer Agreement | Subject to a Material Transfer Agreement |
| Subject to FAO trust agreements | Subject to FAO trust agreements |
| Still available for inclusion in a comparative trial | Still available for inclusion in a comparative trial |
| **SourceMaterialCollectionCategoryType** | **PVP** | A cultivated/obsolete variety | A cultivated/obsolete variety |
| Collected from the wild | Collected from the wild |
| A land variety | A land variety (one which has been traditionally cultivated by farmers for their own use) |
| Special genetic stock (e.g. breeding lines) | Special genetic stock (e.g. breeding lines) |
| **StageCategoryType** | **PVP** | A | application pending |
| B | application rejected |
| C | application withdrawn |
| D | plant breeder’s rights granted or variety entered in official variety list |
| **SubmissionMethodCategoryType** | **PVP** | Courrier | Courrier |
| Bringing | Bringing |
| **VarietyNameCategoryType** | **PVP** | Denomination of the variety | Denomination of the variety |
| Breeder's reference | Breeder's reference |
| **VarietyOriginCategoryType** | **PVP** | Controlled Pollination | Controlled pollination |
| Open Pollination | Open pollination |
| Genetic Manipulation | Genetic manipulation |
| Spontaneous Mutation Or Sport | Spontaneous mutation or sport |
| Induced Mutation Or Sport | Induced mutation or sport |
| Selection From Source Material | Selection from "source" material |
| Controlled cross | Controlled cross |
| Partially known cross | Partially known cross |
| Unknown cross | Unknown cross |
| Mutation | Mutation |
| Other Origin | Other |

[End of Annex II B and of document]