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

1.   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.
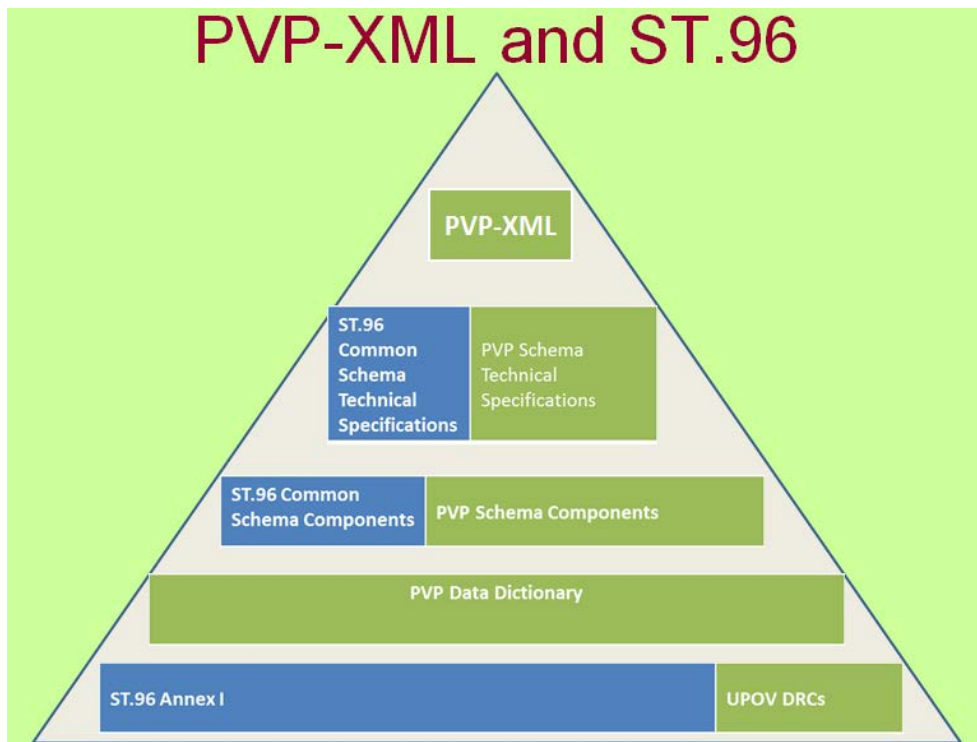
BACKGROUND

2.   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.
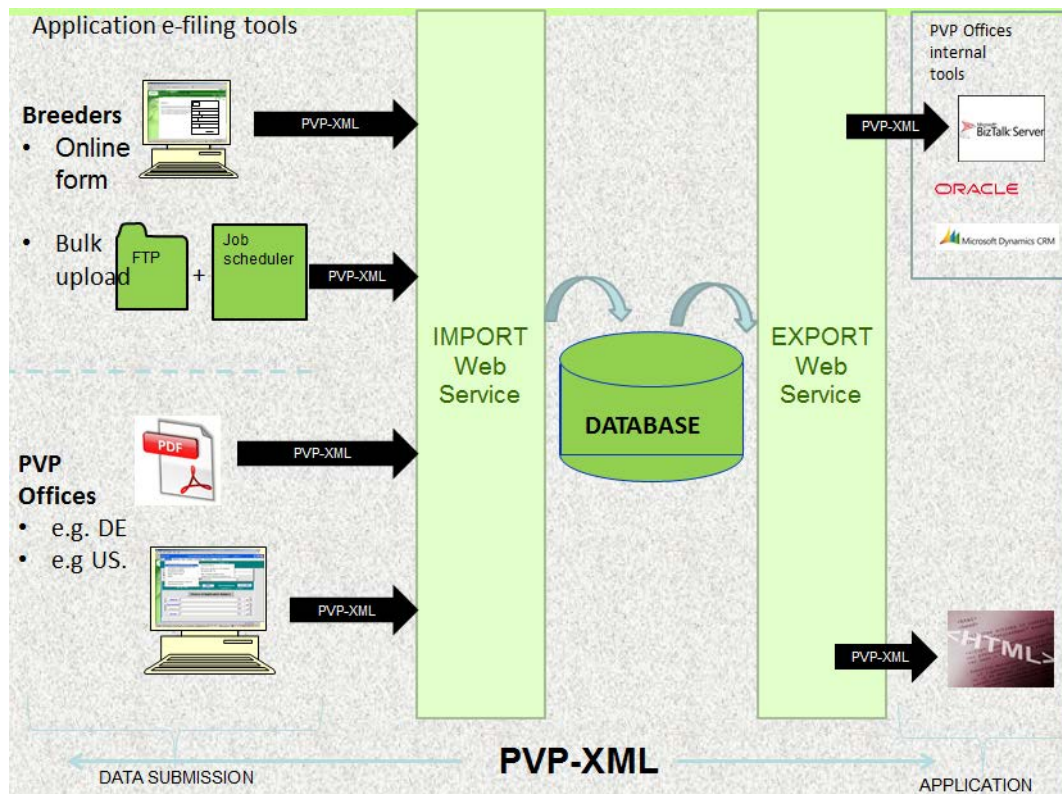
PVP-XML SCHEMA

3.   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).

4.   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

5.   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).

6.   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.

> 7.   *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

8.   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).

9.   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

10.   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.

11. 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 (UPOV DRCs)

12. 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.

13. 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.

14. 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

15. 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.

16. 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.

17. 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

18.   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.

19.   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

20.   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.

21.   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

22.   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.

23.   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]

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> 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> 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

24.   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]

ANNEX II A

ELEMENTS AND ATTRIBUTES DICTIONARY

Dictionary Entry	Description	Object Class	Property Term	Represe ntation Term	Tag Name	Name -space	Status	Remarks
Application Form. Additional DocumentBag	Other forms and documents attached (UPOV A1:10)	Application Form	Additional DocumentB ag	-	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	ApplicantBa g	-	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.BotanicalNam e.Text	Botanical Name (ST.96 pat:PlantName/pat:Bota nicalName)	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.Cat egory	Category of Breeder (UPOV-A1 5(c))	Breeder	Category	Category	BreederCategory	PVP	Added on:2014-09-18+02:00	
Breeder.Category.Tex t	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.T ext	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.Informatio n	Breeding procedures used to initiate the new variety	Breeding Procedure	Information	-	BreedingProcedureInform ation	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.Cat egory	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	EmployerFundingAgency NotificationCategory	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	EnclosedCopyMaterialTra nsferAgreementIndicator	PVP	Added on:2014-09-18+02:00	AU
Breeder.Entitlement.T ext	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.Declarati on.Text	Declartation statement related to technical examination (UPOV-A1:9(b), 9(c))	Examination	Declaration	Text	ExamniationDeclarationT ext	PVP	Added on:2014-09-18+02:00	
Examination.Preferre d Date.Date	Date the applicant wishes the field examination to occur	Examination	Preferred Date	Date	ExaminationPreferredDat e	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 Application Bag	-	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 Comparison Bag	-	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 Comparison Bag	-	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 Comparison Bag	-	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 Comparison Bag	-	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:Plant CommonName)	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	SourceMaterialCollection Category	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:UPO VCode/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.Cat egory	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.Dat e	Date of examination submission	Submission	Date	Date	SubmissionDate	PVP	Added on:2014-09-18+02:00	JP
Submission.Method.C ategory	Description of how the examination was submitted	Submission	Method	Category	SubmissionMethodCateg ory	PVP	Added on:2014-09-18+02:00	JP
Submitted Seed Spawn.Quantity.Quan tiy	Quantity of seed or spawn to be submitted	Submitted Seed Spawn	Quantity	Quantity	SubmittedSeedSpawnQu antity	PVP	Added on:2014-09-18+02:00	JP
Application.Submitter s 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:UPO VCode/pat:SubSpecies)	Plant	SubSpecies	-	SubSpecies	PVP	Added on:2014-09-18+02:00	
Supplier Owner.Notification.Ca tegory	Type of obligation to notify the supplier/owner of the original germplasm about your intention to obtain PBR	Supplier Owner	Notification	Category	SupplierOwnerNotification Category	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.Informatio n.Text	Trademark information	Trademark	Information	Text	TrademarkInformationTex t	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.Synony m	Commercial Synonym/Trade Name	Commercial Denominati on	Synonym	-	CommercialDenomination Synonym	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:UPO VCode)	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]

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]