



Food and Agriculture  
Organization of the  
United Nations



**The International Treaty**  
ON PLANT GENETIC RESOURCES  
FOR FOOD AND AGRICULTURE

## **GLIS Descriptors and WEB-SDIS**

**Strengthening national capacities on plant genetic resources in  
the context of the Global Information System of the  
International Treaty**

**12 – 14 December 2017, Cape Town, South Africa**

# GLIS Descriptors Classes

## 1. CORE DESCRIPTORS

### 1a. Mandatory descriptors (5)

### 1b. Highly recommended descriptors (8)

## 2. ADDITIONAL DESCRIPTORS (17)



# CORE DESCRIPTORS: 1<sup>a</sup> Mandatory

## Mandatory descriptors

M01					M02	M03	M04	M05		
Organization or individual conserving the PGRFA								Scientific or common name		
FAO-WIEWS code	Easy-SMTA PID	Name (Organization or individual)	Address	Country	PGRFA sample unique identifier	Date	Method	Genus	Species	Common name

# Method \*\*

What event occurred on that date that resulted in you becoming the PGRFA holder?

- 1. Acquisition**
- 2. In-house copy**
- 3. In-house variant**
- 4. Novel distinct PGRFA**
- 5. Observation – Natural**
- 6. Inherited**

# HIGHLY RECOMMENDED DESCRIPTORS

R01	R02	R03	R04			R05	R06	R07	R08
Links to associated data	DOI(s) of progenitor(s)	Biological status	Species Author.	Subtaxa	Subtaxon Auth.	Names	Other identifiers	MLS Status	Historical PGRFA

# ADDITIONAL DESCRIPTORS

Material you acquired from someone else						
Provider's location						
A01					A02	A03
FAO WIEWS code	Easy-SMTA PID	Name (Organization or Individual)	Address	Country	Provider's unique ID	Country of Provenance

Material previously collected from <i>in situ</i> conditions															
Collector's location															
A04					A05	A06	A07	A08	A09	A10	A11	A12	A13	A14	A15
FAO WIEWS code	Easy-SMTA PID	Name (Organization or Individual)	Address	Country	Collector's unique ID	Coll Mission ID	Coll Location	Latitude	Longitude	Uncertainty	Geodetic datum	Georeferencing method	Elevation	Collecting date	Collecting source

Material bred					
Breeder's location					
A16					A17
FAO WIEWS code	Easy-SMTA PID	Name (Organization or individual)	Address	Country	Ancestry

# WEB SDIS

## SADC PLANT GENETIC RESOURCE CENTRE

### Documentation and Information System (SDIS)

Search Material

#### About Us

The SADC Plant Genetic Resources Centre (SPGRC) has since 1990s developed an SPGRC Documentation and Information System (SDIS) at SPGRC and installed it at all the National Plant Genetic Resource Centres (NPGRCs) in each of the 15 SADC Member States. The system was developed as a source of information and to assist in planning and operating genebank activities.

The system preceding the online version was a standalone database whereby countries entered data on accessions of active collections, data which later was transferred to SPGRC by email, FTP, and physically, on CDs. In return, after updating, SPGRC distributed updated versions to all SADC Member countries. This slowed exchange and caused loss or distortion of information.

This web-based SDIS is set to allow 'real-time' accessibility and updating of the database. Besides the system being compatible across platforms, more manageable, highly deployable and more secure with data; its installation and maintenance is less complicated



# WEB-SDIS

## SADC PLANT GENETIC RESOURCE CENTRE

Documentation and Information System (SDIS)

Search Material

Scientific Name	Origin Country	Collection Date From	Collection Date To
Common Name	Sample Status	Main Plant Use	Working Group

Ref Code	NPGRC #	SPGRC #	Scientific Name	Orig. Country	Sample Status
SGB970905514	MWI05514	SGB05514	Vigna radiata (L.) Wilczek	MALAWI	Landrace
SGB970905515	MWI05515	SGB05515	Vigna subterranea (L.) Verdc.	MALAWI	Landrace



# Analyzing WEB-SDIS in GLIS

WEB SDIS in GLIS									
M01				M02	M03	M04	M05		
Organization or individual conserving the PGRFA							Scientific or common name		
FAO-WIEWS code	Easy-SMTA PID	Organization name & Address	Name of individual & address	PGRFA sample unique identifier	Date	Method	Genus	Species	Common name
ZMB048		National PGR Centre (NPGRC)		NPGRC # or Ref Code??		Acquisition	Vigna	radiata	Faba bean

# SADC PLANT GENETIC RESOURCE CENTRE

## SPGRC HQ

**PASSPORT/COLLECTION DATA: 04 Sep 2017 00:00:00 - 04 Sep 2017  
23:59:59**

COLLECTION NO	SCIENTIFIC NAME	REGISTER NO	COLLECTOR	TRIP CODE	DISTRICT NAME	LOCAL (ETHNIC) NAME	ETHNIC GROUP	DATE OF COLLECTION	NEAREST VILLAGE	MAIN PLANT PART PLAN USED T USE
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- ❖ These descriptors should be provided whenever available to support GLIS's more advanced functions.
- ❖ Valid values must be entered if known, but missing values are allowed.

## ADDITIONAL DESCRIPTORS

- ❖ These descriptors are relevant in the appropriate context, depending on the values assigned to some core descriptors.
- ❖ Values should be provided if available. Missing values are allowed.

# 1<sup>ST</sup> USE CASE: GENE BANKS

**Table 1. Use case for genebanks: Mapping to MCPD V.2.1 descriptors**

1. CORE DESCRIPTORS		
1a. MANDATORY DESCRIPTORS		
GLIS descriptor	GLIS Description	MCPD equivalent for genebanks
M01. Organization/individual conserving the PGRFA	The location where the PGRFA is maintained	Institute Code [ <i>INSTCODE</i> ]
M02. PGRFA unique identifier	The identifier that you use to identify your PGRFA material to distinguish it from other PGRFA conserved by you	Accession Number [ <i>ACCENUMB</i> ]
M03. Date	Date on which you became the holder of the PGRFA	Acquisition date [ <i>ACQDATE</i> ]
M04. Method	Considering the date given for field M03 ('Date'), what event occurred on that date that resulted in you becoming the PGRFA holder	N/A
M05. Genus or crop name	Genus or common crop name. Specify one or both	Genus [ <i>GENUS</i> ] Common crop name [ <i>CROPNAME</i> ]

# CORE DESCRIPTORS: 1b Highly recommended

<b>1b. HIGHLY RECOMMENDED DESCRIPTORS</b>		
R01. Links to associated information	One or more URLs where further information about the PGRFA can be obtained	N/A
R02. DOI(s) of progenitor(s)	The DOI of the PGRFA or PGRFA materials from which your PGRFA was derived	N/A
R03. Biological status	This describes the conditions of provenance of the PGRFA	Biological status of accession [ <i>SAMPSTAT</i> ]
R04. Additional taxonomic category	Species authority: Authority for the specific epithet Subtaxa: Any additional infra-specific taxon: subspecies, variety, form, Group Subtaxon authority: Authority for the subtaxon	Species authority [ <i>SPAUTHOR</i> ] Subtaxon [ <i>SUBTAXA</i> ] Subtaxon authority [ <i>SUBTAUTHOR</i> ]
R05. Names	One or more registered names or other designations, such as the name of a landrace, traditional variety or modern cultivar, or some other name or designation used to identify a breeder's selection or elite line or variety	Accession Name [ <i>ACCENAME</i> ]
R06. Other identifiers	Any other identifiers that have been assigned to identify the PGRFA material. It does not include identifiers for other materials that you believe maybe similar to this PGRFA.	Other identifiers associated with the accession [ <i>OTHERNUMB</i> ]
R07. MLS status	The status of the PGRFA with regard to the Multilateral System of Access and Benefit-Sharing (MLS) of the International Treaty on Plant Genetic Resources for Food and Agriculture	MLS status of the accession [ <i>MLSSTAT</i> ]
R08. Physical existence	Describes whether the PGRFA is still available or permanently lost after being registered	N/A

# GLIS website

## Online-help

- Descriptors and Guidelines for DOIs
- FAQs
- Selected documentation
- Presentations and videos about descriptors, and
- **The GLIS Portal!!**

<http://www.fao.org/plant-treaty/areas-of-work/global-information-system/en/>



## Key Characterization and Evaluation Descriptors:

Methodologies for the Assessment of 22 Crops

Adriana Alarcia







Organización de las Naciones  
Unidas para la Alimentación  
y la Agricultura



**Tratado Internacional**

**SOBRE LOS RECURSOS FITOGENÉTICOS  
PARA LA ALIMENTACIÓN Y LA AGRICULTURA**

**Thank You!**

**International Treaty Secretariat**

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