

IRRI - Genetic Resources Information Management System (GRIMS)

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Overview

- IRRI-GRIMS is being developed to follow (and improve) the functionalities of the genebank's existing system IRGCIS
- Development of new functions for additional needs/requirements
- Uses ICIS tables, where possible
- Uses Borland Delphi as front-end tool and Oracle 8i as back-end tool

Features

- **Seed Acquisition**
 - Involves management of all information given by the donor (passport and collection information), initial seed increase, assignment of IRGC accession number and designation of MLS/FAO dates
- **Seed Multiplication**
 - Involves management of processes related to seed rejuvenation and replenishment of samples in the genebank
- **Seed Characterization**
 - Involves management of morphological and agronomic traits of samples stored in the genebank
- **Seed Management**
 - Involves monitoring of the movement of seeds to and from the genebank

Integration with ICIS tools

- **Uses SetGen for generating list of incoming samples processed by the Seed Health Unit**
- **Uses ICIS Workbook for seed export**
- **Uses InTrack for viewing inventory information**
- **Uses GMS Search for finding an accession and all relevant information attached to it**

Functions used in ICIS tools

- SetGen
 - Create a list of incoming samples
 - Import a list of incoming samples from Excel
 - Advancing a line one generation
 - View characteristics
 - Fill with Germplasm Location
 - Fill with Name
 - Exporting a list to Excel
 - Adding/assigning attributes to a germplasm

Functions used in ICIS tools

- ICIS Workbook
 - Fill with MTA number
 - Fill with Cross Name
 - Fill with accession number
 - Fill with Preferred Name
 - Fill with MTA status

Functions used in ICIS tools

- InTrack
 - Viewing of seed stock (location, amount and units of measurement)
- GMS Search
 - all

Issues/Needs

- Unable to accommodate new set of descriptors
- Some functions not ready for “production”
- Link to images and scanned documents
- Needs closer integration with ICIS

Work plan

- Use ICIS Workbook for entering morphological and agronomic data
- Display/retrieve images/scanned documents related to accessions
- Add stricter data entry validation rules to avoid data errors in the database
- Create procedures, functions and triggers to port data from IRGCIS to ICIS
- Continuous system testing (how?)

Thank you !