

## Course Outline

### Using ICIS to Manage Information from a Pedigree Breeding Program

1. Introduction to ICIS and its deployment in breeding programs
2. ICIS applications for managing breeding programs
3. A simple model breeding program
4. Germplasm lists – the hybridization block
5. Making the F1 and F2 nursery lists
6. Managing Pedigree Nurseries: Selecting and bulking
7. The Workbook and Nursery templates
8. Loading data from a Workbook
9. Advancing PNs through batch processing
10. Field books for replicated trials
11. Entering pedigrees into ICIS
12. Loading existing nursery lists
13. Setting up Nursery templates

This course uses the IRIS central database with a local database called Training.mdb. To start the course you must install a new, unregistered local database called TRAINING with administrator RBREED and password RBREED. (See setting up the training.doc). Notes, presentations and databases for each stage of the course are contained in the following subfolders. The version of Training.mdb in each training subfolder should be copied to the local subdirectory where the Training local has been installed before the start of each session. This will overwrite the existing local database and ensure that students start with the same data for each stage.

### Documentation

This documentation consists of four sections:

1. The training manual with 16 lessons and exercises designed to be used with IRIS and the IRIS Training Local database.
2. Chapter 5 of the ICIS Technical Development Manual (TDM) which is the official user manual for the ICIS GMS Applications
3. Chapter 10 of the TDM which is the user manual for the ICIS DMS applications
4. Appendix 7 of the TDM which is a self-study ICIS Tutorial designed to be used with the ICIS Tutorial Database.

### Course Material

#### Introduction

- ICIS-Introduction .ppt
- ICIS-BreedingTools .ppt
- IRIS-Breeding .ppt
- The Model Breeding Project .doc

## Making Crosses and Establishing the Pedigree Nurseries

- Training .mdb
- Introduction to SetGen .ppt
- The Hybridization Block HBand F1.doc
- Making the crosses – The F1 list HBand F1.doc
- The F2 Planting List HBand F1.doc

## Reserving of Seed Stock for HB List

- Training .mdb
- Managing Seed Stocks - Reservation.doc

## Advancing Lines with interactive tools

- Training .mdb
- Single plant selection for the F3 Nursery .doc
- Bulk Selection for the F4 Nursery .doc

## Using Workbook to manage evaluation data

- Training .mdb
- Introduction to DMS .ppt
- The Work Book .ppt
- Workbook Templates .doc (demo)
- Using a template to store data for the F4 Nursery .doc

## Advancing Lines with batch processing tools

- Training .mdb
- Using the batch advance tools .doc

## Depositing of Seed Stock for F5 List – Interactive

- Training .mdb
- Managing Seed Stocks – Deposit .doc

## Replicated Yield Trials

- Training .mdb
- Using FLDBK to prepare  
Workbook for randomized  
and replicated trials .doc