Implementation of ICIS for Maize and Wheat Progress Report

Graham McLaren

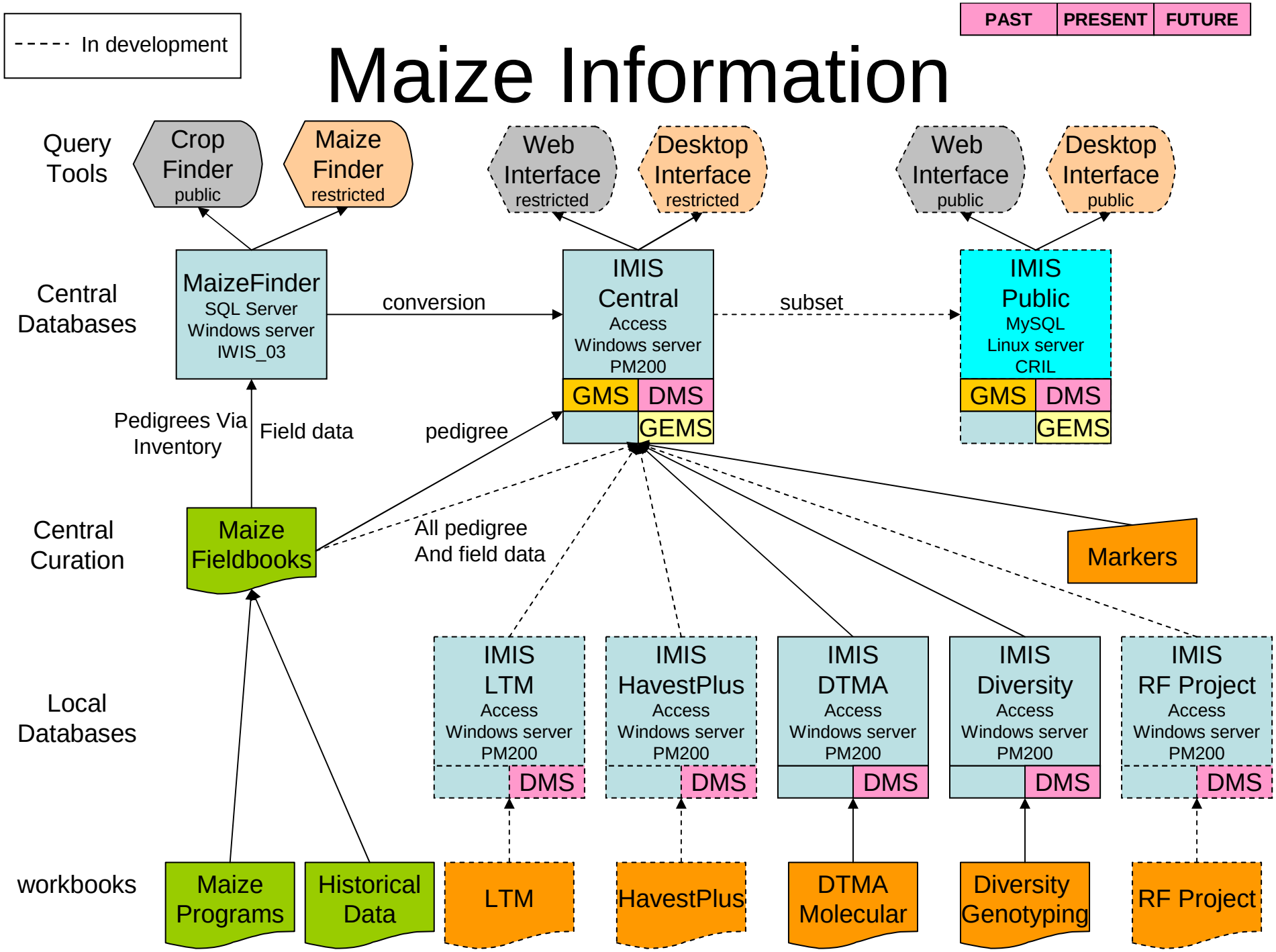
CRIL

IRRI

International Maize Information System

Eduardo Hernandez
Juan Carlos Alarcon
William Eusebio
Jean Danga
Graham McLaren

CIMMYT MR


PAST
PRESENT
FUTURE
In development
Maize Information
Query Tools
Crop Finder public
Maize Finder restricted
Web Interface restricted
Desktop Interface restricted
Web Interface public
Desktop Interface public
Central Databases
MaizeFinder SQL Server Windows server IWIS_03
conversion
IMIS Central Access Windows server PM200
GMS DMS GEMS
subset
IMIS Public MySQL Linux server CRIL
GMS DMS GEMS
Pedigrees Via Inventory
Field data
pedigree
Central Curation
Maize Fieldbooks
All pedigree And field data
Markers
Local Databases
IMIS LTM Access Windows server PM200 DMS
IMIS HavestPlus Access Windows server PM200 DMS
IMIS DTMA Access Windows server PM200 DMS
IMIS Diversity Access Windows server PM200 DMS
IMIS RF Project Access Windows server PM200 DMS
workbooks
Maize Programs
Historical Data
LTM
HavestPlus
DTMA Molecular
Diversity Genotyping
RF Project

Maize Pedigrees

- CML Pedigrees entered into IMIS
- 2006, 2007 and 2008a inventories for LT Program entered
- 2007 and most of 2008a inventories for H+ Program entered
- MaizeFinder pedigrees reviewed and passed to breeders for further verification before entry

USE of ICIS Applications for Maize Breeding

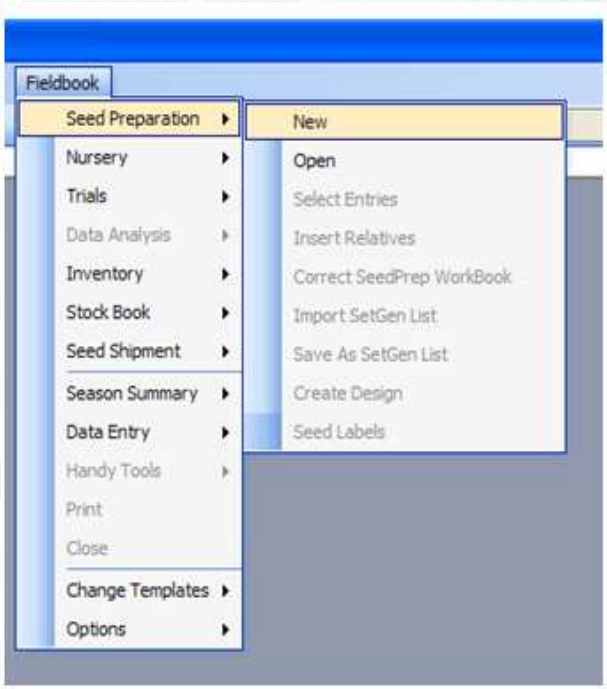
- All 2007 and 2008a nursery lists entered into ICIS
- Coding system for LT program developed
- WorkBook Templates for LT PN and TC Nurseries developed

Integration of Fieldbook with ICIS

- Import of SetGen Lists to SeedPrep
- Export of SeedPrep Lists to SetGen

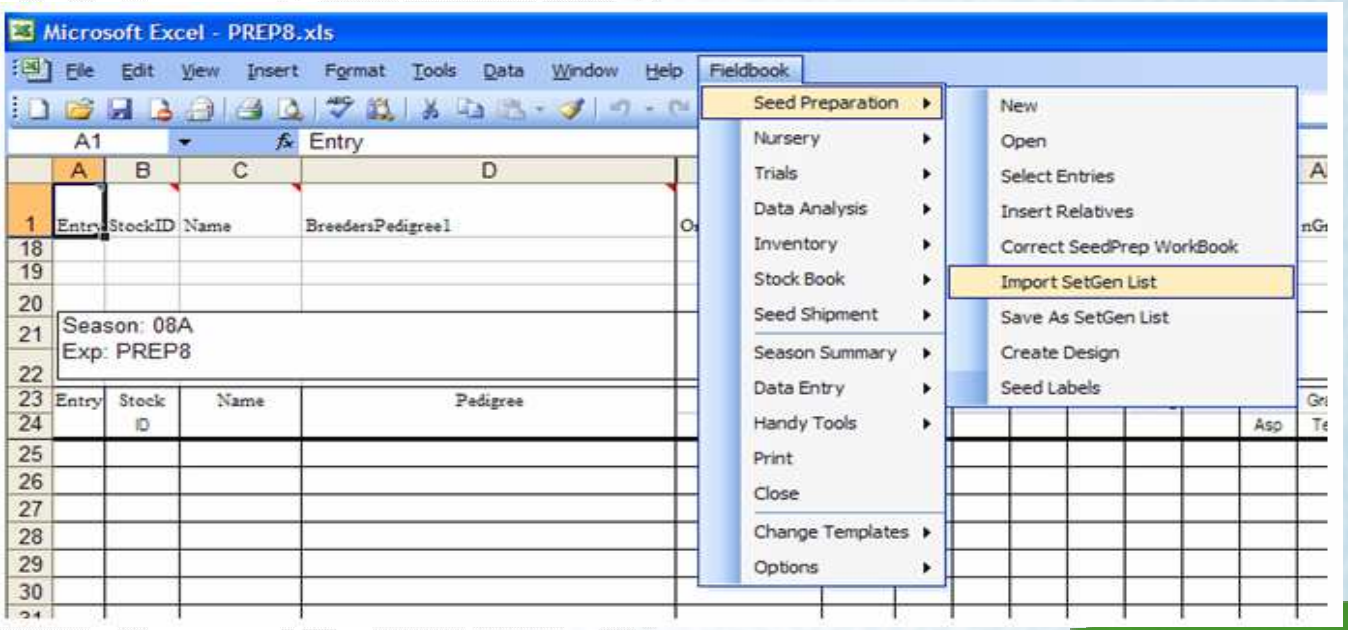
Import SetGen List

- In the Seed Preparation menu, choose to create a New one or Open an existing one.



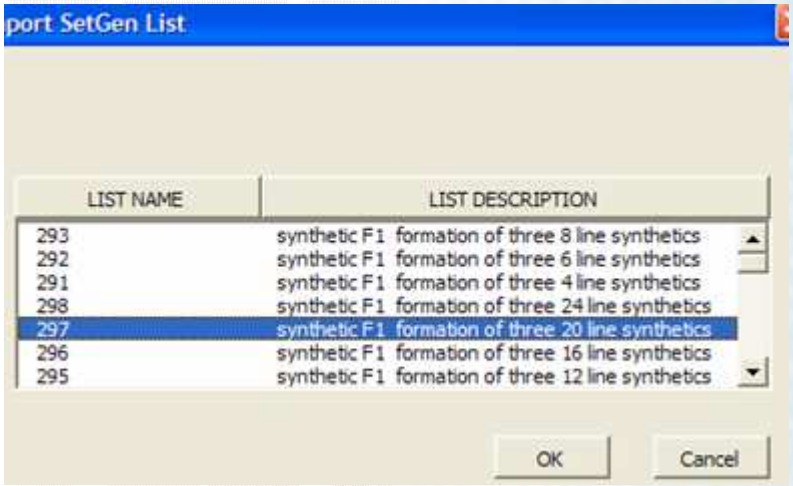
Import SetGen List (cont'd.)

- After opening or creating a new seed prep worksheet, you can now choose from the Seed Preparation menu the Import SetGen List tool.



Import SetGen List (cont'd.)

- The Import SetGen List dialog box will appear. Select the list you want to import and click OK.



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IMIS for Genomic Data

- Curated Maize diversity data sets in IMIS
- Ready to do this for the SNP studies once the data is available
- Constructing a Rockefeller project database for all the QTL, Maps and summary microarray data from this maize drought project.
- Documenting all genomic datasets on the GREU wiki (http://cril.cimmyt.org/confluence/display/GREU/Genomic+Datasets).
- The scope the work to be done in Maize molecular breeding is being ascertained in collaboration with DTMA researchers.
- The CMAP software is being uses to visualise map base data for maize (cmap.cimmyt.org).

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International Wheat Information System

Jesper Nørgaard
Juan Carlos Alarcon
Bibiana Espinosa
Guy Davenport
Miguel Anducho
Graham McLaren

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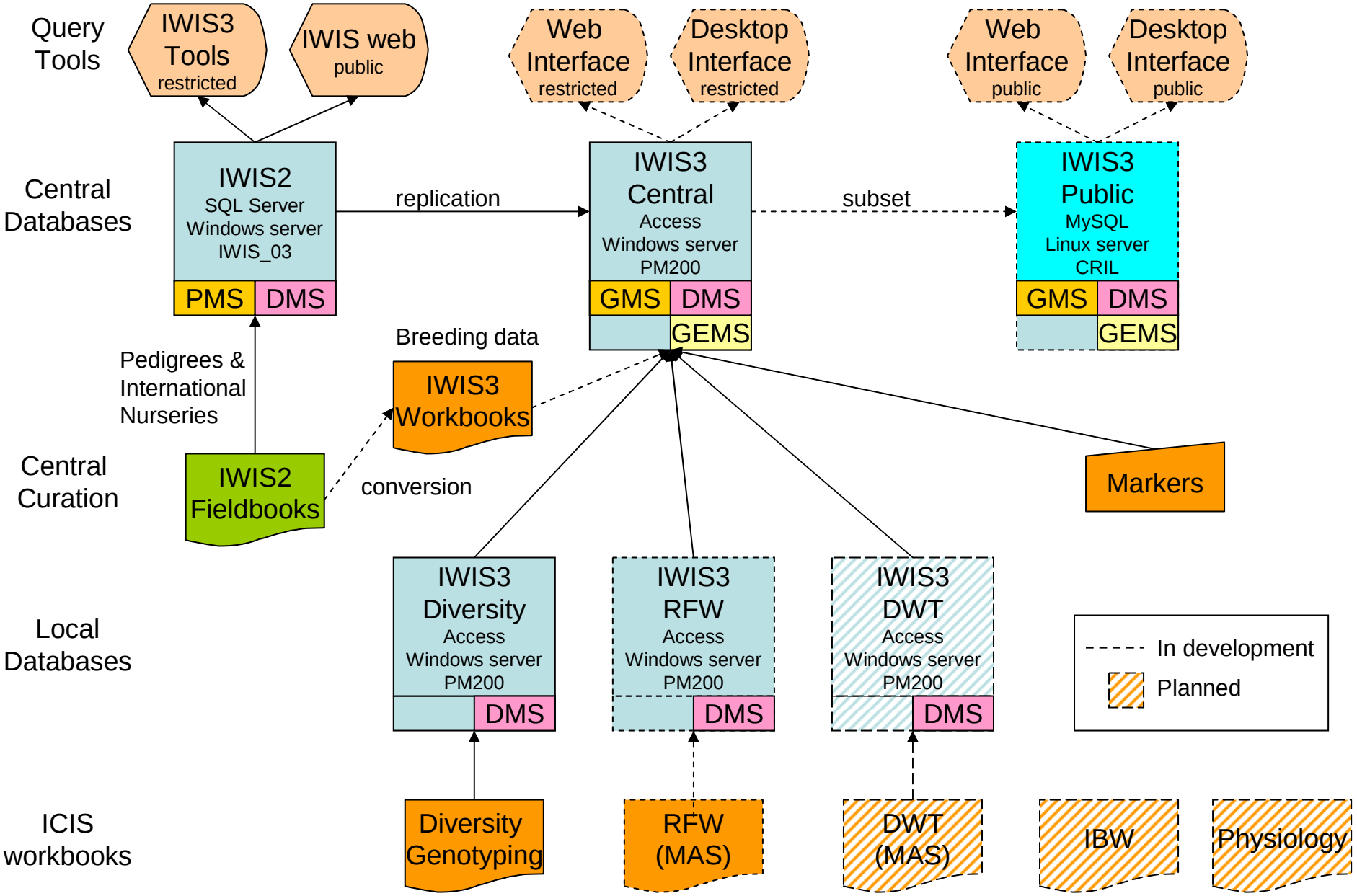
Wheat Information



IWIS3 Central DB activities

- Improved synchronization of IntrIds between IWIS2 and IWIS3
- Updating MGIDs where appropriate (when representing an INTRID)
- New int. nurseries recognized and put in place in IWIS3 new DMS released
- Prepare DBs for v.5.5 (field lengths etc.) and released a new public version of IWIS3
- Continue work with setting up ICIS for Wheat Germplasm Bank for Bibiana Espinosa
- Include GIDs in Excel exporting from IWIS2

Progress with WGB Inventories

- Contents of many boxes have been entered as Setgen Lists
- Inventory Tracker has been modified
  - To produce barcode labels for boxes and packets
  - Read Lot IDs from barcodes and accept weights from an electronic scale to update inventories

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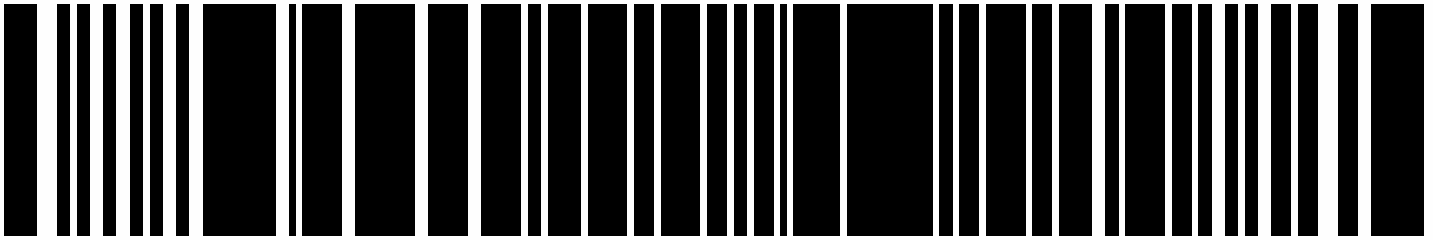

B-5-A-1-1 CIMMYT:064-0000000005

INTRID T3985:TID 51298 ENT 7515

5 MXI 99-00 IGA46

X2146-7N-8M-5N-2M-2Y-0M

GID: -267853

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SMTA (Standard Material Transfer Agreement)

- Create the ICIS environment in order to generate the SMTA.
    1. Create SIDU database
    2. Install web site on server
- Test phase was done by CRIL.
- Install ICIS environment on users PC.
- SIDU and SHU users are training in order to generate the SMTA documents.
- First phase. Generate some (all) SMTA from Jan 2008 to Jun 2008)
- Second phase. Release SMTA site on 1st July 2008 and continue generating SMTA.

SMTA site

CIMMYT's portal for the online dissemination of information on maize and wheat exported from CIMMYT under the Standard Material Transfer Agreement of the multilateral system of the International Treaty on Plant Genetic Resources for Food and Agriculture

List of Outgoing SMTAs

Results per page: 100 Set

IRRI - CIMMYT CRIL

Powered by TOMCAT

Powered by MySQL

SMTA site(2)

Summary of shipments of germplasm sent by CIMMYT under the Standard Material Transfer Agreement (SMTA)

Total number of SMTAs: 4 Max SMTAs per page: 100 Page no. 1 of 1

[Home] [SMTAs]

SMTA ID	SMTA Date	SMTA Full Text	Recipient	Country	Number of Samples in Shipment	List of Entries
SIDU-002	20080101	text	N. BAYARSUKIN / PSARTI	MONGOLIA	50	entries
SIDU-003	20080101	text	Mr. Michelle van Wyk / Small Grain Institute	SOUTH AFRICA	50	entries
SIDU-004	20080101	text	Dr. Ron M. DePauw / SPARC	CANADA	50	entries
SIDU-005	20080101	text	Dr. Ravi Singh / CIMMYT	MEXICO	50	entries

IWIS3 for Genomic Data

- Curated diversity datasets of all SNP and DArT genotyping data in IWIS3
- We have maps for 3 GWP populations and 9 from Triticarte
- Documenting all genomic datasets on the GREU wiki (http://cril.cimmyt.org/confluence/display/GREU/Genomic+Datasets).
- Working with Wheat molecular breeding to develop IWIS3 local databases for the Rain Fed and Durum breeding programs.
- The CMAP software is being uses to visualise map base data for wheat (cmap.cimmyt.org).

New Staff

- Hector Sanchez – Crop Informatics Specialist-Maize
- Arllet Portugal – Crop Informatics Specialist - Wheat