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# **ICIS at SPARC**

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# Wheat Breeding

- Bread Wheats
- Durum



# Data Comparison Tool

- **Expanded:**
  - provides trial description information (location, fertilizer, precipitation etc.)
  - Handles replicated data
  - Made more universal in its application for usage by the ICIS community
- **Started conversion from VBA to VB.NET**
  - Web-based querying



# Data Templates

- **Created:**
  - Captures all data measured as well as the official methods and scales used
- Filled in by senior technicians in charge of organizing durum & bread wheat breeders data
- Example



# DMS

- Durum from 1995 to 2005
- Bread Wheat from 1996 to 2005



# GMS

- Constantly updating and correcting as we receive the information
- Worked out a protocol for separating private (local) pedigree information from public (central) pedigree information
- Sent public durum & bread wheat to be added to GWIS (1890-2000)



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# Coefficient of Parentage

- Being used in various projects at SPARC

# ICIS on the AAFC Network



Lethbridge

Swift Current

Winnipeg



# ICIS LIMS/GEMS (ICARDA)

- **Evaluated**
- **Additional needs**
  - **Adding a Melting Temperature (T<sub>m</sub>) field**
  - **Primer synonyms (different labs using different acronyms)**
  - **Source of primer**
  - **References on primers**



# Molecular Variant Data

- Looking at storing this data in the DMS
- Considering expanding Data Comparison to include allele data with the phenotypic data
- Open to discussion



# Needs of ICIS

- **Restrict users from having access to specific studies in the DMS and certain pedigree information in the GMS**
- **Get web-based version up and running**



## Needs (con'd)

- **More than one reference/genotype in the GMS**
- **Continued refining of queries to meet AAFC & ICIS community needs**
- **alpha or numeric choice for identification of filial generations**



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