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Semi-Arid Prairie Agricultural Research Centre (SPARC) ICIS Activity Report 2008

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Phenotypic Datasets

- Added summary information for existing datasets from 2000-2007.
- Expanded to include breeding programs at the Lethbridge (LRC) and Winnipeg (CRC) research centres
- AAFC databases now include:
 - Durum Wheat
 - Hard Red Spring Wheat
 - Hard White Wheat
 - Spring Spelt Wheat
 - Extra Strong Wheat
 - High Yielding Red Wheat
 - Hard Red Winter Wheat
 - Soft White Wheat
 - Parkland Wheat
 - Central Bread Wheat

Genotypic Datasets

- Parental screening datasets:
 - Cadmium
 - Wheat Midge
 - High Protein
 - Leaf Rust (Lr21, Lr22, Lr34)
 - Solid Stem
 - Fusarium head blight (FHB)
- Haplotyping datasets
- Loaded information on ~700 markers into GEMS, using GemsCat
- Working on entering genetic population datasets

Biotech Laboratories Using ICIS

- SPARC
 - Created ICIS workbook templates for lab data capture
 - Show lab technical staff how to load and edit their datasets
 - Lab data entry to be taken over completely by biotech lab in 2009.
- LRC, CRC
 - Biotech labs sending their datasets to be entered into ICIS
 - Winnipeg lab will start using ICIS and loading their own datasets after SPARC lab is up and running.

Other Activities

- Continued to improve the Data Comparison Tool
- Gave a seminar to SPARC staff on ICIS (Dec. '08)
- Worked with CRIL staff to report bugs, feature requests
- Worked with Sandra Micallef (UofQ) and Jesper Norgaard (CRIL-CIMMYT) to report bugs and discuss IWIS3 issues
- Worked with Dr. Graham McLaren (GCP) on the Molecular Breeding Platform regarding the Pedigree Management activity.

Other Activities

- Provided advice and help to Dr. Kevin Falk and Dr. Henry Klein-Gebbinck (AAFC) on setting up ICIS with their Ethiopian Mustard breeding program
- Continue to improve the integration of ICIS between SPARC, LRC, and CRC
- Working on the implementation of ICIS at the University of Saskatchewan with Dr. Curtis Pozniak's programs

2009 Crystal Ball

- Continue to enter genetic datasets and marker information for SPARC, LRC, and CRC
- Help breeding program technical staff load phenotypic datasets into ICIS
- Help biotech lab at SPARC switch over to ICIS for data capture
- Develop new queries in Data Comparison Tool, as needed
- Work on Molecular Breeding Platform activities
- Work on help files and tutorials for AAFC ICIS users



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