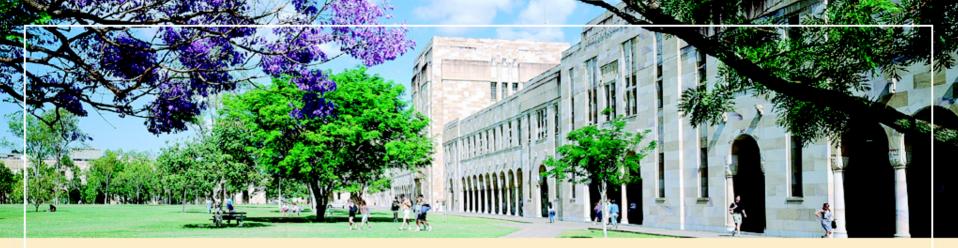


# **Activity Report**

Plant Improvement Group School of Land, Crop and Food Sciences The University of Queensland

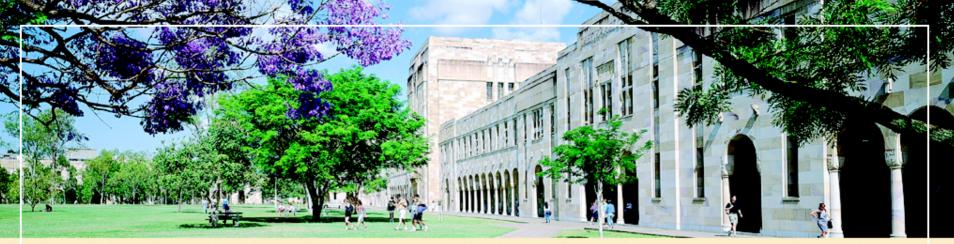
Sandra Micallef ICIS 2007

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- Database of Australian wheat pedigrees
- Updated 1500 Australian historical wheat pedigrees
- CIMMYT conversion to ICIS IWIS3
  - Some issues with Australian pedigrees
  - Updates have to be redone
- Database of Australian Barley pedigrees





•Web interface for GWIS

•Public access and password protected http://gwis.lafs.uq.edu.au

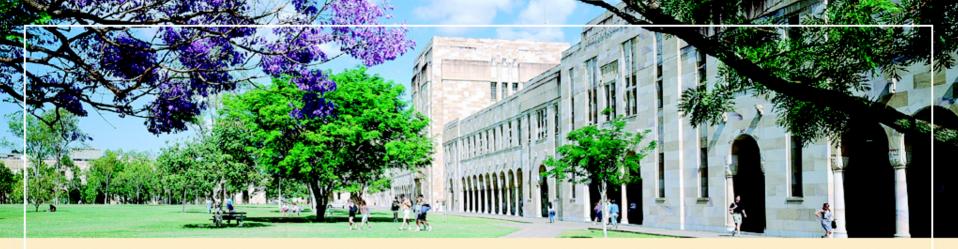
•Currently updating -server hardware -web interface

•New web interface

-DArT data

-Pedigree download tool (future)



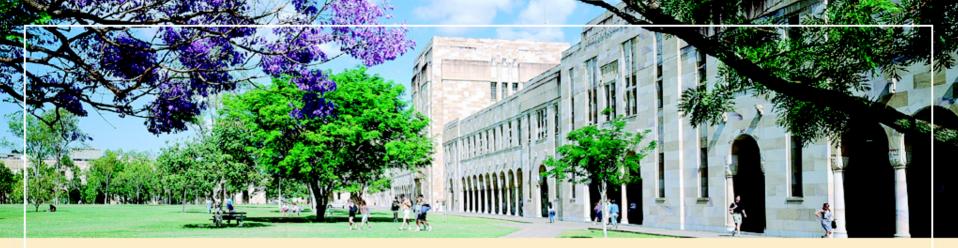


#### CAGE – CIMMYT Australian Germplasm Evaluation

- Funded by GRDC
- Promote uptake of CIMMYT germplasm by Australian breeding programs
- Projects include:
  - Germplasm evaluation
  - Synthetics evaluation
  - International Adaptation Trials
  - International Rust Disease Resistance Nursery



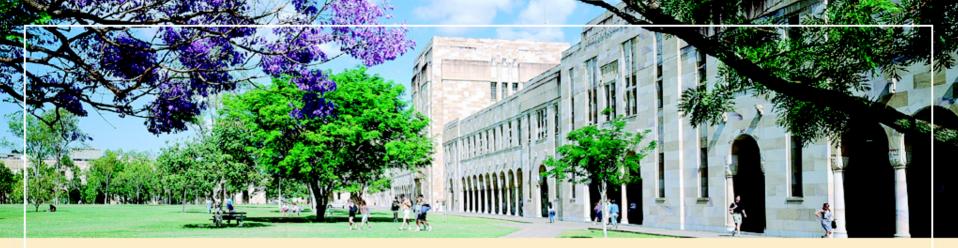
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#### CAGE – CIMMYT Australian Germplasm Evaluation

- UQ responsible for databasing project
- Collate data from all other projects and use ICIS for data management
- Spreadsheet templates for users
- Data available on a website
  - EXCEL files
  - Need data download facility on web interface

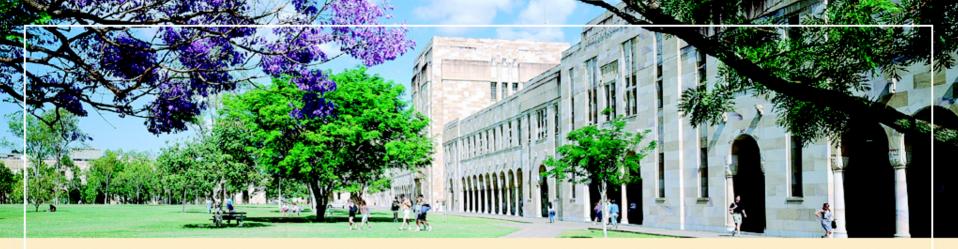




#### CAGE – CIMMYT Australian Germplasm Evaluation

- New project with Australia Wheat CRC
- Support further development and deployment of ICIS for the management and web querying of phenotypic, quarantine and high throughput genotypic data, particularly DArT® data, for wheat germplasm, and any other crop





## **ICIS in Australia**

•UQ

•Leslie Research Centre

•CSIRO

•University of Adelaide

University of Southern Queensland

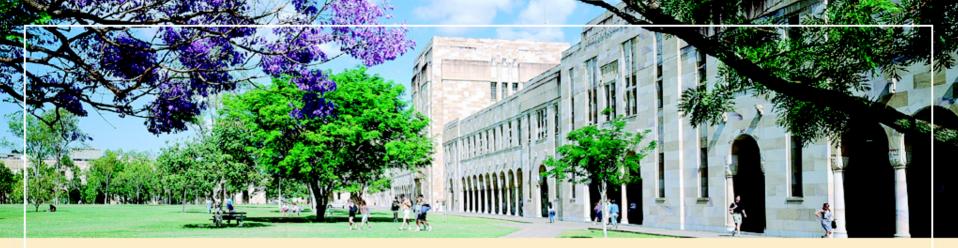
•University of Sydney

Murdoch University

•Western Australia Agriculture

•Victorian Institute for Dryland Agriculture



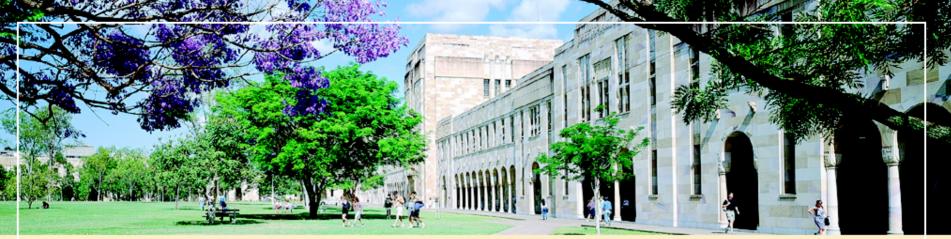


#### **ICIS Mini workshop - Brisbane March2007**

- Participation of
  - UQ, IRRI, Wheat CRC, ACPFG, DArT Pty Ltd
- Topics covered
  - Visualisation tools for genotype and phenotype data.
  - Use of DArT data in selection and breeding
  - Storage of DArT data in ICIS
  - Data warehousing to increase performance on data querying
  - Query Design and User Interface Refinement



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### **Future developments**

- Website for CAGE suite of projects (new web interface)
- Develop web and stand alone versions of the 'Pedigree Download Tool"

