Integration of External Tools with ICIS

Pedigree Download Tool

Sandra Micallef – ICIS2007, SPARC

THE UNIVERSITY OF QUEENSLAND

GRDC Grains Research & Development Corporation

ACPFG

Current Tools on Web interface

- Query DMS across studies
- Limited phenotypic/DMS data downloadable
- Query pedigree data
- Pedigree data cannot be downloaded

Current tools on stand alone version

- SETGEN
  - Create lists of germplasm
  - Export to spreadsheet or text file
- Users need to have ICIS running on PC

Required .....

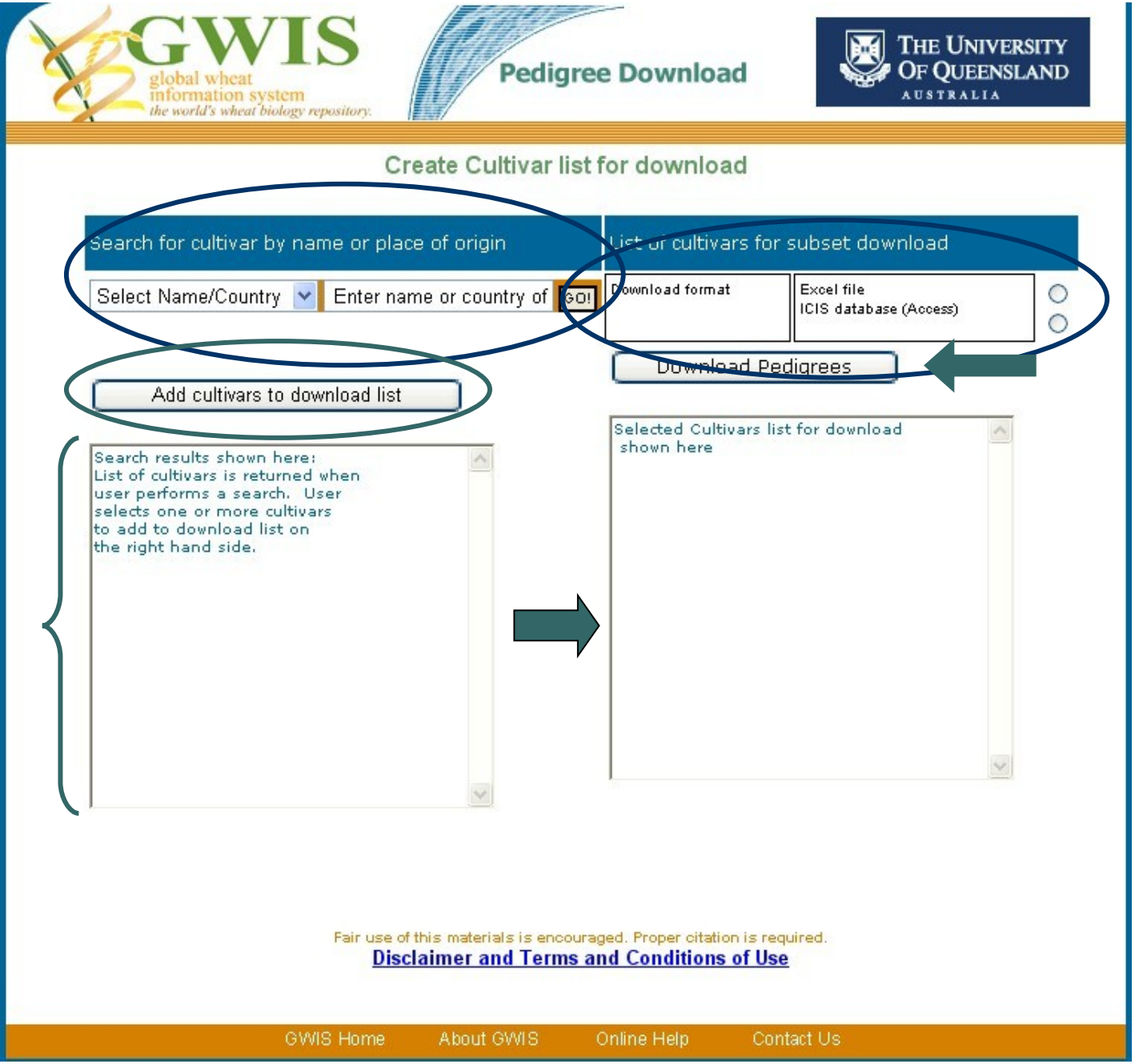
- Pedigree Download Tool
  - Allows users to select a number of varieties
  - Gives each variety's pedigree
  - Details of all parents in each pedigree (i.e. full ancestry tree)
  - Ancestry tree can be defined to n generations

Advantages for users

- Download can be in database format as well as spreadsheet and text file
- Can create a subset of a much larger database
- Smaller database – faster performance
- Web enabled tool – allows users to download data without the need to run ICIS on their PC

Advantages for administrators

- Tool useful in “pulling out” data from local databases for uploading to central
- Helps to segregate confidential data from public data
- Can be extended to be applied to the DMS part of the system – uploading only public phenotypic and analysis data to the central



- Search for variety by name or country of origin
- List of search results
- Add selected entries to list
- Select output format (either or both)
- Download pedigrees button

Development

- Currently:
  - Some code in Fortran (.EXT LST command in BROWSE)
  - Some code in VBA
  - Uses lists from SETGEN
- Web Enabled tool
  - JAVA / ASP.NET
  - Users create lists “on the spot”
  - Output in spreadsheet or Access format
  - To be included in standard ICIS web interface

THANK YOU