



ICARDA

International Crop Information System in ICARDA- Status

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Past Activities

- Collection, collation, and conversion of all ICARDA breeding germplasm lists, all ICARDA field trial's data for the different crops to the ICIS database structure for genealogy, nomenclature, characterization and evaluation data management.
- Collection, collation, and conversion of all ICARDA trial sites coordinates and attributes into a geo-referenced link for site specific searchable information.
- Collection, collation, and conversion of all ICARDA genetic / molecular information available for crops identified Allele, mapping data, finger printing, etc into a searchable form through the ICARDA LIMS and GEMS
- The International Faba bean Information System (IFbIS) was initiated in 2006 and completed as scheduled in 2007. It is the first to implement the three modules of ICIS (Genealogy Management System, Data Management System, Location information for GIS) at ICARDA. This was made possible through the support of the Australian Department of Primary Industries.

ICIS Implementation Status

System Module	GMS	DMS	GEMS	WEB Enabling	No. Of GMS Records
Barley	√	O	√	√	699,645
Chickpea	√	O	X	√	23,947
Lentil	√	√	X	√	20,000
Durum & Bread Wheat	XO	XO	X	X	
Faba Bean	√	√	X	O	25,512
Forages	X	X	X	X	

√ = implemented
 O = on going
 X = to be implemented

Data loaded so far

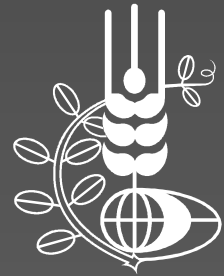
- Barley: *GMS* 699,645 records (No DMS)
- Chickpea: *GMS* 23,947 records
- Faba Bean: *GMS* 25,512 records
 - > DMS = 436 studies (1988 to 2005)
 - > 136,802 data points
- Lentil: *GMS* 20,000 records
 - > DMS = 47 studies
 - > 238,239 data points

2009 Activities

- Complete DMS for Barley, Chickpea
- Create Local ICIS for wheat using CIMMYT Wheat ICIS as Central
- Initiate data entry for both durum and bread wheat
- Implement Molecular data integration for Chickpea and Lentil
- Continue to update all existing databases
- Increase awareness and training for ICIS use

The way ahead

- ICARDA breeders are committed to using the system and prepared to put in the investment
- Special emphasis is planned for wheat data
- Web interface is awaited urgently
- Links to other ICARDA systems planned



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Thank you