

The IRRI logo is displayed in a green, serif font. It is positioned in the upper left quadrant of the slide, above a horizontal bar that is yellow on the left and green on the right. The background of the slide features a large, stylized image of a rice panicle on the left side, rendered in a light, semi-transparent style. The overall background is a light blue with a subtle, repeating pattern of rice panicles.

IRRI

ICIS Data Validation Tool v5.5.1.2

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The CIMMYT logo is located in the bottom right corner. It consists of a stylized white icon of a wheat stalk to the left of the text 'CIMMYT' in a white, sans-serif font. A small 'MR' trademark symbol is positioned at the bottom right of the text. The logo is set against a green background that features a wavy, stylized representation of a field or hills at the bottom of the slide.

 CIMMYT^{MR}

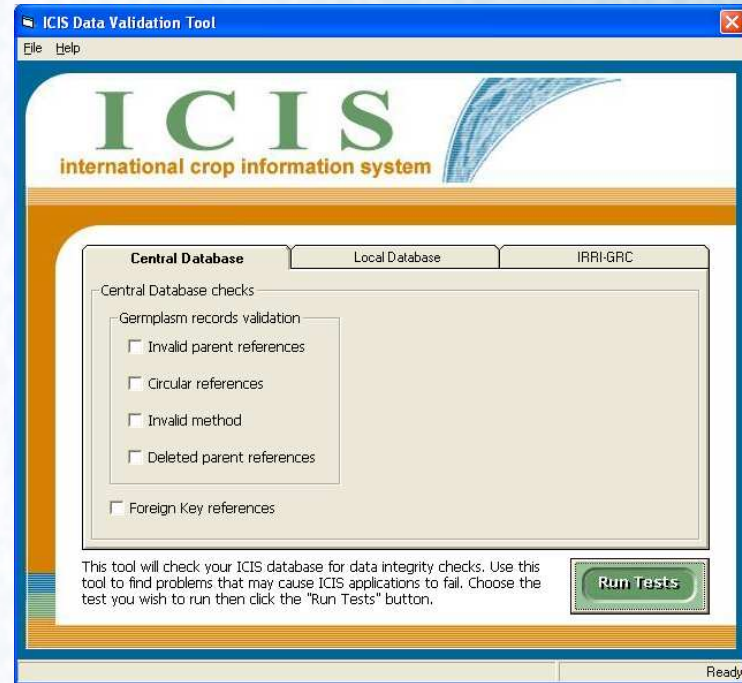


Objectives of the tool

- 1) Search ICIS for data errors
- 2) Check referential integrity of ICIS databases

Background

- **2006:** First introduced ICIS Developers' Workshop
- **2007:** Original Visual Basic prototype translated to Delphi, and official released as part of the ICIS 5.4 package
- **2008:** Improvement of reporting format and refinement of SQL statements used



Overview of features: User interface

Database foreign key references

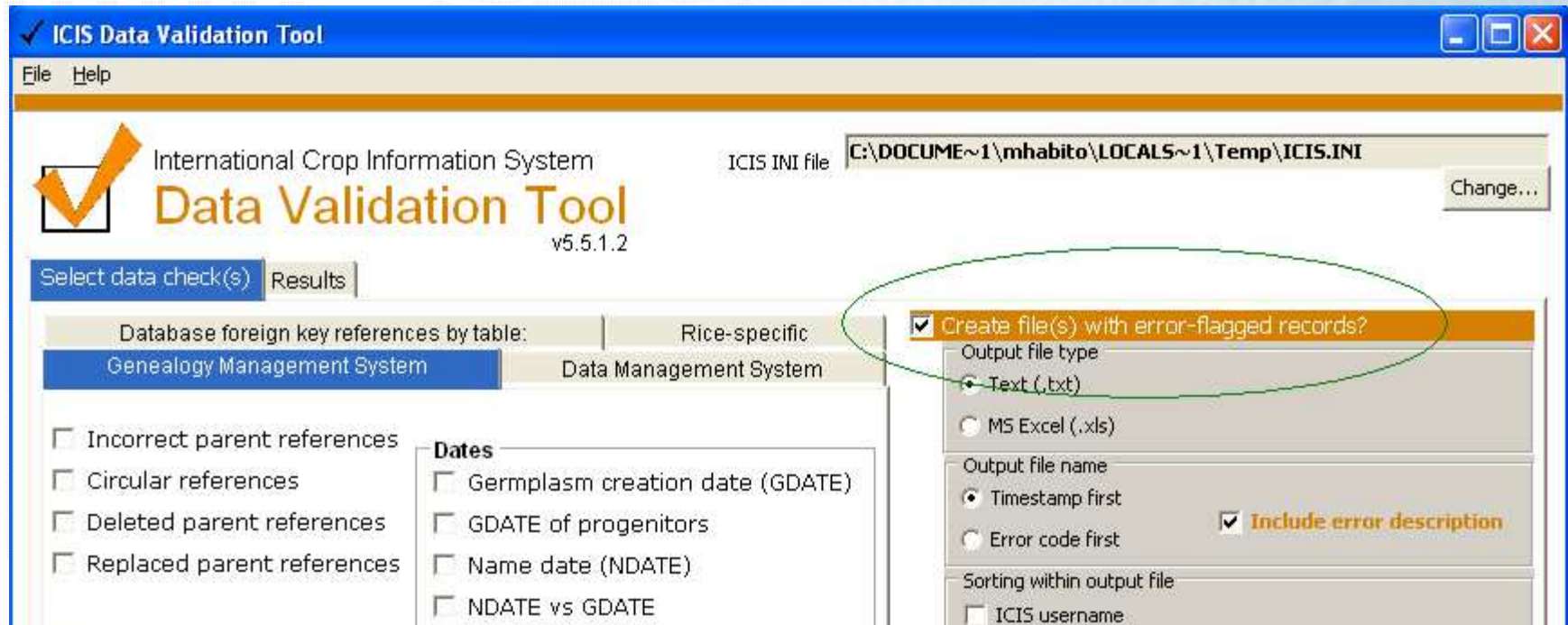
GMS

DMS

Rice-specific

Overview of features

- Option to just generate SQL statements (for manual querying) OR directly query the database(s) (complete with creation of files containing error-flagged data) ← **NEW**



Overview of features

- Option to do checking on LOCAL database

**NEW**

Check: Central database

Local database

Overview of features

- Option to print dataset(s) with errors in a TEXT file or MS EXCEL file
 - Printing to text file is faster, but limited to 20 chars per column
 - Printing to Excel is slower, but no truncation in printing
 - If Excel is selected but no. of records > 65530 (maximum row capacity of Excel is 65536), datasets will instead be placed in a text file.

Microsoft Excel - 20090204_15513115_DataError-0039-IRGC_IRGCaccessionwithinvalidcharactersinnames-.xls

File Edit View Insert Format Tools Data Window Help

H13 fx

	A	B	C	D	E	F	G	H	I	J
1	ICIS Data Validation Tool 5.5									
2	DataError-0039-IRGC	IRGC accession with invalid characters in names.								
3		(Format is: IRGC nnnnn [where nnnn is numeric])								
4	Total records: 7									
5										
6	NID	NVAL								
7	314148	IRGC 104846[S								
8	314149	IRGC 104847[N								
9	314150	IRGC 1048482-								
10	314151	IRGC 104849[N								
11	314153	IRGC 104850[N								
12	314154	IRGC 104851[S								
13	314155	IRGC 104852[S								
14										

20090211_18021148_DataError-0039-IRGC_IRGC accession with invalid characters in names

File Edit Format View Help

ICIS Data validation Tool 5.5

DataError-0039-IRGC: IRGC accession with invalid characters in names.
(Format is: IRGC nnnnn [where nnnn is numeric])

Total records: 7

nid	nval
314148	IRGC 104846[S
314149	IRGC 104847[N
314150	IRGC 1048482-
314151	IRGC 104849[N
314153	IRGC 104850[N
314154	IRGC 104851[S
314155	IRGC 104852[S

Overview of features

- More result file options

→ Control over format of filename ← **NEW**

- Timestamp first?
- Error code first?
- Include description of error code?

→ User may sort data records within a file by ICIS username ← **NEW**

Create file(s) with error-flagged records?

Output file type

Text (.txt)

MS Excel (.xls)

Output file name

Timestamp first

Error code first

Include error description

Sorting within output file

ICIS username

Overview of features

- **Improved reporting format**

← **NEW**

→ Data validation results neatly organized in a listview

✓ ICIS Data Validation Tool

File Help



International Crop Information System

Data Validation Tool

v5.5.1.2

ICIS INI file E:\ICISS\EXES\ICIS.ini

Change...

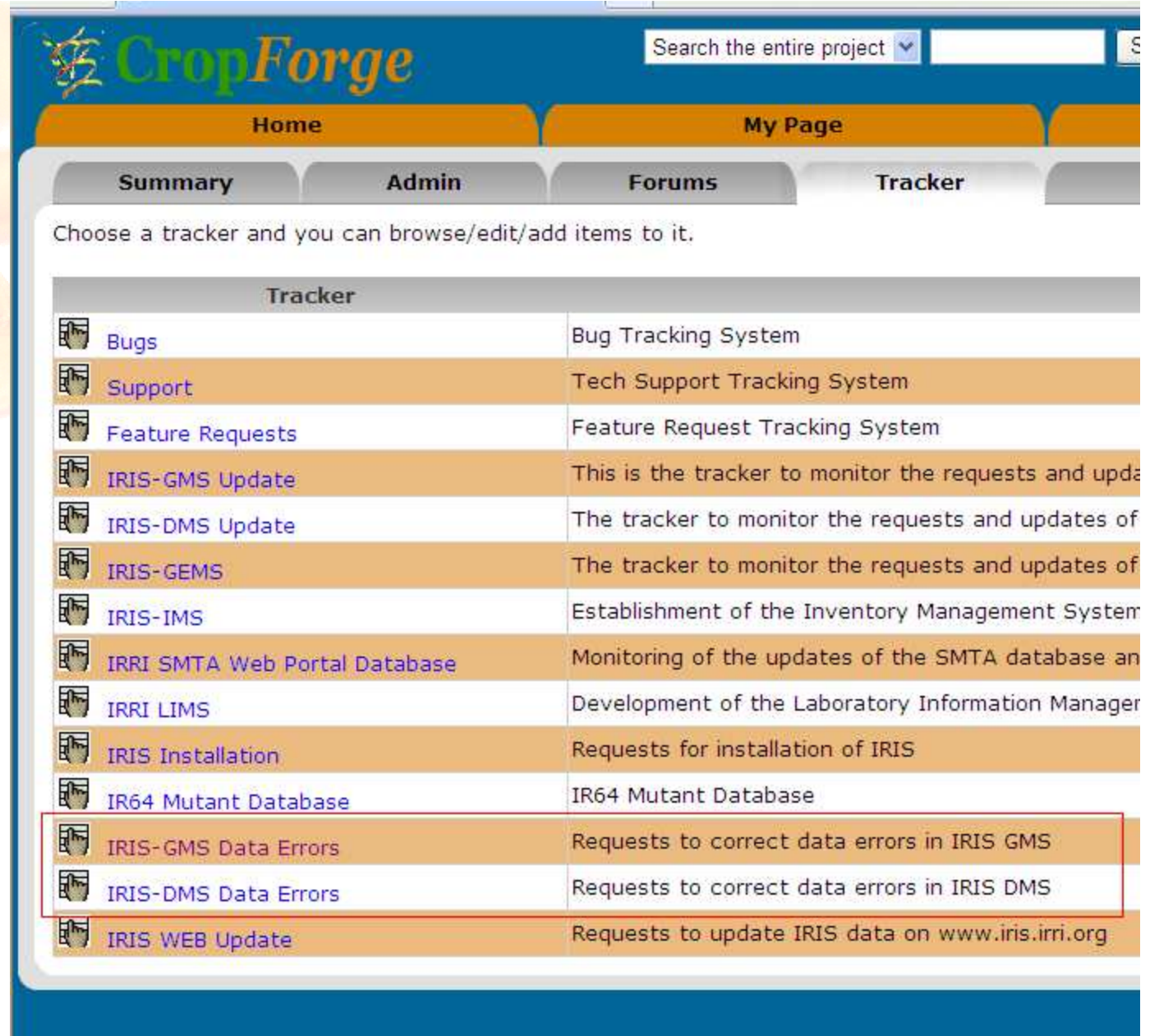
Select data check(s) Results

Double-click filename to open:	No. of records
E:\ICISS\EXES\icis_validate_resources\Central GMS\20090211_17321860_DataError-0001_Unknown group source.txt	43
E:\ICISS\EXES\icis_validate_resources\Central GMS\20090211_17323992_DataError-0002_Germplasm with non-generative group source.txt	689













→ Double-click the name of the results file to open it

→ Number of records with errors (per error code) immediately visible

....data correction requests are posted on CropForge (Special new trackers in the CropForge IRIS Communication project were created just for managing data correction requests)



The screenshot shows the CropForge website interface. At the top, there is a search bar with the text "Search the entire project" and a dropdown arrow. Below the search bar are navigation tabs for "Home" and "My Page". Underneath, there are sub-tabs for "Summary", "Admin", "Forums", and "Tracker". The "Tracker" tab is selected, and a message says "Choose a tracker and you can browse/edit/add items to it." Below this is a table titled "Tracker" with two columns: the tracker name and its description. The table lists various trackers, including "Bugs", "Support", "Feature Requests", "IRIS-GMS Update", "IRIS-DMS Update", "IRIS-GEMS", "IRIS-IMS", "IRRI SMTA Web Portal Database", "IRRI LIMS", "IRIS Installation", "IR64 Mutant Database", "IRIS-GMS Data Errors", "IRIS-DMS Data Errors", and "IRIS WEB Update". The last three rows are highlighted with a red border.

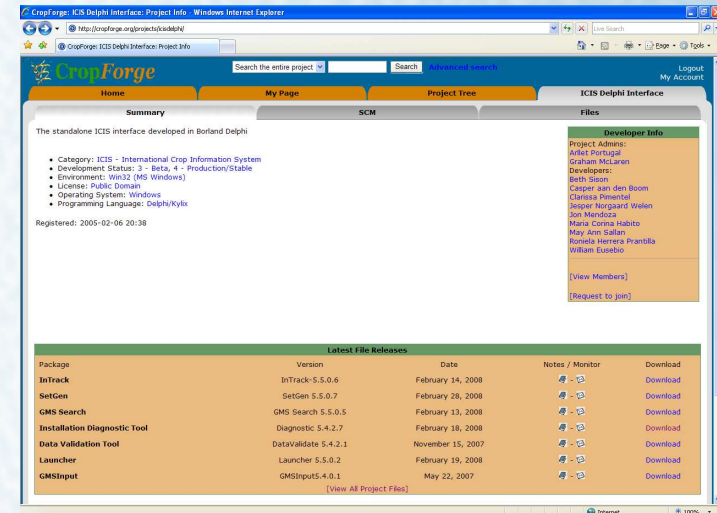
Tracker	
 Bugs	Bug Tracking System
 Support	Tech Support Tracking System
 Feature Requests	Feature Request Tracking System
 IRIS-GMS Update	This is the tracker to monitor the requests and updates
 IRIS-DMS Update	The tracker to monitor the requests and updates of
 IRIS-GEMS	The tracker to monitor the requests and updates of
 IRIS-IMS	Establishment of the Inventory Management System
 IRRI SMTA Web Portal Database	Monitoring of the updates of the SMTA database an
 IRRI LIMS	Development of the Laboratory Information Manager
 IRIS Installation	Requests for installation of IRIS
 IR64 Mutant Database	IR64 Mutant Database
 IRIS-GMS Data Errors	Requests to correct data errors in IRIS GMS
 IRIS-DMS Data Errors	Requests to correct data errors in IRIS DMS
 IRIS WEB Update	Requests to update IRIS data on www.iris.irri.org

Moving forward...

- Add functionalities for automation of some data corrections (*work in progress*)
- Further testing on different database backends

Download and documentation

- You may download the Data Validation Tool at:
<http://cropforge.org/projects/icisdelphi/>



- Documentation
http://cropwiki.irri.org/icis/index.php/Data_Validation_Tool_5.5