

#### ICIS Developers' Workshop 2007 SetGen 5.4.1

**Clarissa Pimentel** 

# SetGen 5.4.1

- Recent Changes:
  - Lists / Forms Improvement
  - Batch Forms
  - Fill Withs...
  - MTA
- New INI keys
- Future Plans

#### **Lists / Forms Improvement**

- Focus on TextBoxes/Buttons in forms and tabordering are improved
- Added the use of hourglass cursor during "busy" time for several functions
- Improved caption of forms by including CropName specified in INI file

	Add Entries in Batch Mode for RICE	
💟 SetGen - List Manager for RICE	urce Study	
List List Entry Edit GMS Batch Help	📭 📃 💥 Generate Crosses in Batch Mode i	or RICE
List Selector 🕂 🖓 📼 🛛 🕂 🗛 🖪- 🕅 Mx gid 雄	Implasm L Source Study	tives in Batch Mode for RICE
2007	Destination List Source Study	INes III Dateli Mode Isi Mice
⊡- SetGen Lists	Name Name	
EXPORT	Matrix Crossing Tool for RICE 🔗 Generate	GIDs in Batch Mode for RICE 🔍
	nale List U06DSF5 Germplasm List	V10 Destination List
E PBGB	estination List	Title
	ne	

# Lists / Forms Improvement ...

- Sorting of tree list folders first then lists in alphabetical order
- LIST or FOLDER name always
   unique
- Default width of List Selector can now be set in INI file (INI key is LIST\_PANEL\_WIDTH=n)



# Lists / Forms Improvement ...

- Added extra possibilities (mouse wheel events and page up/down) for navigating in Lists
- Opening position (location) of several forms is centered
- Added shortcut text/keys

SetGen - List M	lanager	for	RICE		Save List	Ctrl+S
List Entry Edit	GMS E	Batch	Help		Save List as	
	Ctrl+O Ctrl+B	•	B+ Bx B-	Mx gid (#4	Edit Entry Fields Remove Entry from List Add Blank Entry	F2
5ave As Export As Close List	Ctrl+S	•	T Browse	Ctrl+Alt+X	Replace List Entry Append Entry Insert Entry Insert TextLine	
Add Checks to List	Ctrl+I Ctrl+Del		Edit Both	Ctrl+Alt+Y - Ctrl+Alt+Z	Cut Copy Paste (Before Tagged Entry)	Ctrl+X Ctrl+C Ctrl+V
Hide/Unhide Lists					Add Extra Column	
Print		۲			Save Headers and/or Extra Column Data	
Exit		_			Retrieve Extra Column Data	
					View Characteristics	
					Export As Print List Entries Print List Characteristics	,
					Edit Germplasm in GMS Delete Germplasm from GMS Replace Germplasm in GMS	
					Close List	Ctrl+Alt+Y

color, composition, and layout

### Lists / Forms Improvement ...

- Shows the newly added entry in list
- Displays full description of name types as hints in Alternative Names/Attributes

Tree	Germplasm Characteristics (GID: 2064752)
	Preferred Name Date Named Name Location
	KAWILAN 2006- 5-17 COTABATO (NORTH)
	Germplasm Creation Method Germ. Creation Date Germ. Location
	IMPORT 2006- 5-17 COTABATO (NORTH)
	Cross Expansion Levels
	KAWILAN 1
	Generation No. UKN(F?)ISE Unique ID 146-96
	☐ Descendants ☐ Group Relatives
	Cross KAWILAN (2064749) Source (0)
	Alternative Names Attributes Type Name Type Value
	CUNAM KAWILAN IPSTAT RESTRICTED - NOT FOR D
	NTA IS2006-024
	MTA NUMBER
	List/s where this Cermplasm is present
	IS2006-024 (2155)
	RESTRICTED2U(-32)
Generation History	
Generation History	RESTRICTED3(-70) SHTA_TEST(-69)

#### Lists / Forms Improvement ...

 Uniformity of forms for both stand-alone and SetGen GMS Search tool

Search GMS				🗱 Search GMS						
Search      Name      Attribute UPL RI 5	Ge	More	Close	Search 🕢 Name C Attribute	UPL RI 5		Go	More	Close	
Name Type <pre> <not specified=""></not></pre>	GID	12067	About	Name Type	<not specified=""></not>	•	New	Select	Multiple Select	
Names	Method Loca	ion	Unique ID	or Retrieve GID	-12067					-
UPL RI S		DEVELOPMENT ADMINIS								
UPL RI 5		DEVELOPMENT ADMINIS		Names		Method	Location	a		Unique ID
UPL RI 5	ISE IRRI-I	NTERNATIONAL RICE I		UPL RI S		NSI	RURAL DEG	ELOPMENT ADM	INISTRATION	IRIS 108-
C 171-36, UPL RI 5, UPLB RI 5, UPLRI 5	VCR PHILIN		IRIS 1-72	UPL RI 5		ISE		ELOPMENT ADM		IRIS 108-
UPL RI 5			CE RES. I IRIS 146	UPL RI 5		ISE	IRRI-INTE	RNATIONAL RI	CE RESEARCH	IRIS 108-
TOS 14623, UPL RI 5	ACL IITA-I	NTERNATIONAL INSTIT	TUTE OF T IRIS 77-J	C 171-36, UPL RI 5,	UPLB RI 5, UPLRI 5	VCR	PHILIPPIN			IRIS 1-72
Tree Expand All Germplasm Characteristics (GID: -1206				UPL RI 5		ISE			RICE RES. I	
Tree Expand An Gernipidsin Characteristics (GD: -1206	37)			TOS 14623, UPL RI 5		ACL	IITA-INTE	RNATIONAL IN	STITUTE OF T	IRIS 77-J
E- UPL RI 5	Preferred Name	Date Named	Name Locat	Tree Expand All Germ	nplasm Characteristics (GID: -1:	2067)				
	UPL RI 5	2007- 2- 1 IRRI-	INTERNATIONAL RICE RES			=1 [				
	Germplasm Creation Method	Germ.Creation Date	Gern.Loca	E UPL RI 5		Preferred Name		e Named		Name Locat
	SEED INCREASE		DEVELOPMENT ADMINISTRA	庄 C 171		UPL RI 5	20	07-2-1 II	RI-INTERNATIO	NAL RICE RES
	1	JEGOV- E- I JKOKAL				Germplasm Creation M	ethod Ge:	rm.Creation I	ate	Germ. Loca
	Cross Expansion		Level			SEED INCREASE	20	07- 2- 1 RU	RAL DEVELOPMEN	
	SIGADIS/BPI 76-1		1 - 1			Cross Expansion		1		Level
	Generation No. C2W(F1,M2)NS	I Unique ID	IRIS 108-12067 <u>D</u> rav			SIGADIS/BPI 76-1				1
	Alternative Names	Attributes				Generation No. C20(1	1,M2)NSI	Unique 1	ID IRIS 108-1:	2067 <u>D</u> rav
	Type Name		Value			<b>D</b>				
						Alternative Names			Attribute	s
	DRVNM UPL RI 5					Type Name			Type	Value
						DRVNM UPL RI 5				
	Descendants Group Relat	ives 🦵 Derivative	e Neighborhood 🗍 Mgmt							
	Cross C 171 (405755)									
	Source UPL RI 5 (406626)					Descendants Grou	p <u>R</u> elative	s   Derivat	tive <u>N</u> eighborh	ood   Mgmt
						Cross C 171 (40575)	5)			
	201					1 Mail	NAT			1

#### **Batch Forms**

 Added Title information when STUDY-dropdown box in B-, Bx, B+ forms changes

Senerate Crosses in Batch Mode for

 Added validation checks for breeding method, name type, and location of Bx and B- tools in "DMS Variable Selection Parameters"

Generate Derivatives in Batch Mode for RICE	Source Study Name (JMNG302 Destination List Name (SMTA_TEST Type LST ▼ D	Male GD	
Source Study Name OBITA_TEST Type UST OBITA_TEST CONSTANT SELECTION PARAMETERS DMS VARIABLE SELECTION PARAMETERS	Name Smirk_LLS1         Type         LS1         C           CONSTANT SELECTION PARAMETERS           Method         0         0           Name Type         rpne>         v	DMS VARIABLE SELECTION PARAMETERS           Method           Varianter	
Consider Selection Panameters   Method  Method	Germplasm Date and Location Date Location 2007-05-29 RR-INTERNATIONAL RICE RESEARCH INST < <u>C</u> hange	Date Location	
Dete Location Date Location Date Location Name Det and Location Name Det and Location Name Det and Location Dete Location Dete Location Dete Location	Name Date and Location           Location           2007-05-29           RRH-NTERNATIONAL RICE RESEARCH INST           Anning Convention of Designation	Date Location	Add Entries in Batch Mode for RICE
2007-05-29 RRI-INTERNATIONAL RICE RESEARCH INST < Change State Sta	Prefix Start No. Suffix 0 implementation of the start No. Suffix 0 implementat	Prefix Start No. Suffix Sou	ince Study e Study OID OID UD Title International Rice Bacterial Blight Nusery-1989
No. of Selections 0 2 Designation Violations			mplasm List sMTA_TEST Type LST V Date 2007- 5-16 Title
	Include reading zeros     Numeric Field Width     Tell     Include leading zeros     Numeric Field Width     Star No.     Suffix     Thouse leading zeros     Numeric Field Width     Star	Prefix Start No. Suffix Nam	e SMTA_TEST Type LST T Date 2007-5-16 THe CONSTANT SELECTION PARAMETERS DMS VARIABLE SELECTION PARAMETERS hing Convention of Entry Code fix Prefix T
No. of Selections 0	Naming Convention of Entry Code       Prefix       0       1 <td>Prefix Start No. Suffix Prefix Start No. Suffix Start No.</td> <td>e SMTA_TEST Type LST T Date 2007-5-16 THe CONSTANT SELECTION PARAMETERS DMS VARIABLE SELECTION PARAMETERS ming Convention of Entry Code fix fix fit No</td>	Prefix Start No. Suffix Prefix Start No. Suffix Start No.	e SMTA_TEST Type LST T Date 2007-5-16 THe CONSTANT SELECTION PARAMETERS DMS VARIABLE SELECTION PARAMETERS ming Convention of Entry Code fix fix fit No
No. of Selections 0	Naming Convention of Entry Code Prefix     Start No.     Suffix     Include leading zeros     Numeric Field Width     Prefix     Start No.     Suffix	Prefix Start No. Suffix Prefix Start No. Suffix Start No.	

color, composition, and layout

# Batch Forms ...

Changed layout of Matrix Crossing tool

Specify Type Female/Male All Combinations Female/Male Matched Pairs Upper Half-I	C Lower Half Diallel
Options Save all combinations to output list.	Do not regenerate existing combinations.
Female List CHECKS	Male List U03WS-09
Output List Name Typ Title	e EXP   Date 2007-05-29
Common Characteristics	
	▼ No. 101 ◆
Name Type UNNAMED CROSS _	
Germplasm Date · · Location AFGHANISTAN Name	< Change
Name Type UNNAMED CROSS  Germplasm Date  Date  Date  Location AFGHANISTAN Name Date  Date	< Change < Change > End Constant

**Before** 

🚺 Matrix Crossi	ing Tool for RICE
Source Lists	
Female List	06DSF5 Male List U05WSF4F
Destination List	
Name	Type LST   Date 2007-05-29 Title
Options	
Save all com	nbinations to output list.  To not regenerate existing combinations.
Specify Type	
Female/Male Al	
C Female/Male Ma	atched Pairs C Upper Half-Diallel
Common Character	
Breeding Method	▼ No. 101 ◆
Name Type	CROSS NAME
Germplasm Date a	nd Location
Date 2007-05-	29 Location IRRI-INTERNATIONAL RICE RESEARCH INSTITUTE, LC < Change
Name Date and Lo	refine
Date 2007-05-	
1	
Naming Convention	n of Designation
Prefix	Start No.     Suffix       0     Include leading zeros   Numeric Field Width
Naming Convention	
Prefix	Shart Ma Cutting
	0
Include leading	zeros Numeric Field Width
Naming Convention	Tor source
Prefix	Start No. Suffix Extrane EntryCode Source
	0 Source
Include leading	IZeros Numeric Field Width
1	
Attribute	Start Close



#### Batch Forms ...

 Added leading zeros in designation names. In INI file, the key-value is STANDARDIZE=NO

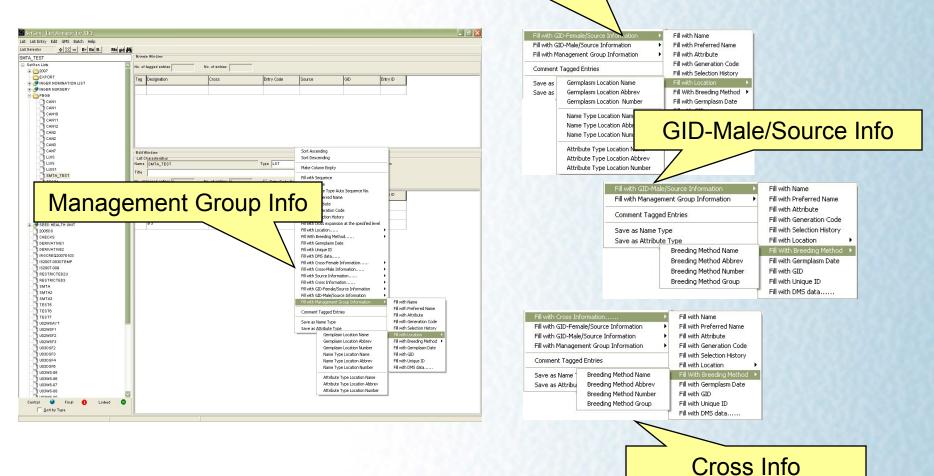
IN MARTIX Crossing Tool for RICE			
Source Lists			
Female List U06DSF5			
Destination List	🔆 Generate Crosses in Batch Mode for RICE		
Name Type LST -	Source Study		
	Name Female		
Options			
Save all combinations to output list. Do not regen	Destination List	🕒 🕒 Generate Derivatives in Batch Mode for RICE	
Specify Type	Name SMTA_TEST Type LST Type	2007. Source Study	
FemaleMale <u>A</u> I Combinations     C Full <u>D</u> iallel		Name 🔂 Name	
C Female/Male Matched Pairs C Upper Half-Diallel	CONSTANT SELECTION PARAMETERS		
	Method 🔽 🖉 🗘 🕅	Destination List Derivative Breeding Method No.	Name Type
Common Characteristics		Name SMIA_IEST Type LST DER 205 DSR SINGLE PLANT SELECTION = 205	DERIVATIVE NAME -
Breeding Method	Name Type <none></none>		
Name Type CROSS NAME		Set as Koot of Management Group	
	Germplasm Date and Location	Method   Germplasm Date and Location	
Germplasm Date and Location			EARCH INCTITUTE LC
Date 2007-05-29 Location RRI-INTERNATION		Date Name Type conne> Date 2007-05-29 Location IRRI-INTERNATIONAL RICE RES	EARCH INSTITUTE, LC < <u>C</u> hange
	2007-05-29 IRRI-INTERNATIONAL RICE RESEARCH INST < Change	Gemplasm Date and Location Name Date and Location	
Name Date and Location	Name Date and Location		
Date 2007-05-29 Location RRI-INTERNATION	·		EARCH INSTITUTE, LC < Change
		Date 2007-05-29 RRI-INTERNATIONAL RICE RESEARCH INST < Chains Convention	
Naming Convention of Designation	2007-05-29 IRRI-INTERNATIONAL RICE RESEARCH INST < Change	Name Date and Location Plants Selected	
Prefix Start No. Suffix		Prefix Ose As	lo 1 Suffix
PFX 1 \$ SFX	Naming Convention of Designation		
	Prefix Start No. Suffix	Vefix 2007-05-29 RRI-INTERNATIONAL RICE RESEARCH INST < Chai	e
	PFX 1 \$SFX		
Naming Convention of Entry Code		Naming Convention of Designation Vumeric Fiel	ld Width 5 💠 🔵
Prefix Start No. Suffix	Vinclude leading zeros Numeric Field Width	No. of Selections	
2		Germplasm Names	
Include leading zeros Numeric Field Width	Naming Convention of Entry Code	Prefix  © Start No 1  Suffix Cross HP 8698 Source HP 8698-	1
	Prefix Start No. Suffix F	Prefix PRX C Range SFX Order Pr 6036	
Naming Convention of Source Prefix Start No. Suffix	2	- Tongo	rivative(s) -00001 🔍
3 Stati NO. Stati NO.		v Include leading zeros Numeric Field Width 5	rivative(s) -00001
	Vinclude leading zeros Numeric Field Width	Namina Converting of Entry Code	
Vinclude leading zeros Numeric Field Width 4		Naming Convention of Entry Code	
	-Naming Convention of Source	Prefix 🕞 Start No 3 🕏 Suffix 🔽 ListName 🔽 EntryCode 🔽 Source Entry Code 17	44403-001 👻
	Prefix Start No. Suffix P		
Attribute	3	C Range	Numeric Field Width 3 🚖
		Include leading zeros Numeric Field Width	
	Vinclude leading zeros Numeric Field Width 3	Source	
		Naming Convention of Source	STRICTED2U-0001
		Prefix G Start No 3 🗢 Suffix	
		Include leading zeros	Numeric Field Width 4
		C Range	,
		📈 🔽 Include leading zeros Numeric Field Width 4	
		Attribute Ok to All	OK Cancel Cancel to All
	<u> </u>	Set as Root of Management Group	
		CROP: RICE	

#### **Fill Withs**

- Extension of menu-options in "Fill Column with " (for EntryCode, Source, Extra columns) in the ff:
  - Fill with GID-Female/Source Information
  - Fill with GID-Male/Source Information
  - Fill with Cross Information
  - Fill with Management Group Information

#### Fill Withs ...

#### GID-Female/Source Info



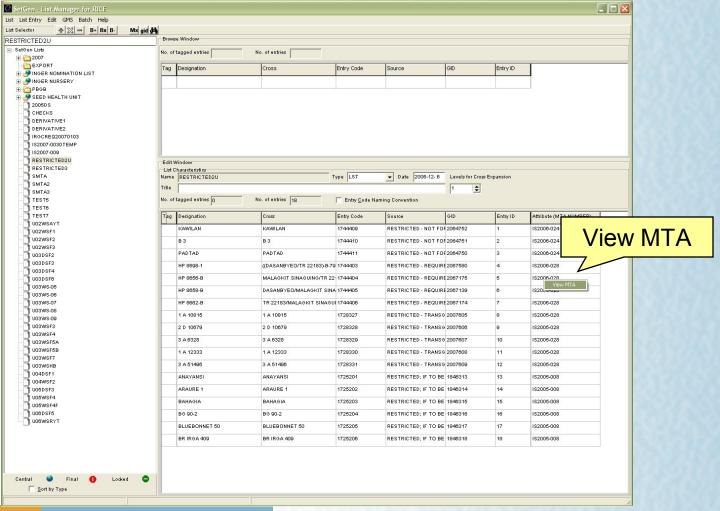
color, composition, and layou

#### MTA

- Added a feature for showing MTA files from the web or from a local path
- Provide the ff. INI keys:
  - MTA\_PATH={either URL or local path}
  - MTA\_FILE\_EXT={document file extension e.g. .pdf or .doc}

Fill With Attribute  $\rightarrow$  Select MTA Number  $\rightarrow$  View MTA

#### MTA ...



color, composition, and layout

#### **INI keys**

- LIST\_PANEL\_WIDTH=n
- MTA\_PATH=C:\smta\_files\ OR http://www.iris.irri.org/smta/files/
- MTA\_FILE\_EXT=.pdf or .doc
- TEXTLINE=YES

Import Germplasm I	List			
Excel File Name			•	Open
Destination List	▼ Type EXP	<b>_</b>	Date 2007	7-05-31
Title GMS Variable Parameters I import GIDs to create	a new list			
GID	Entry C	Code		•
Textline		• [		•
			ок	Cancel
		<u></u>		

# INI keys ...

- SEPARATOR= /
- AUTOFILLVCOL=YES

IRRI

- STANDARDIZE=YES
- DEL\_GERM\_WITH \_DESCENDANTS=NO

🤤 Delete GMS G	ermplasm Characteristics
Germplasm Name	IR 69502-6
or Retrieve GID	204231 <u>Go</u>
Preferred Name	IR 69502-6
Method	SINGLE PLANT SELECTION SF
Group Germplasm	IR 69502
Source Germplasm	IR 69502
Germplasm Location	IRRI-INTERNATIONAL RICE RESEARCH INSTITUTE, LOS BANOS
Germplasm Date	Name Type
Name Location	IRRI-INTERNATIONAL RICE RESEARCH INSTITUTE, LOS BANOS
Name Date	
Reason for deleting	
Delete Location	< C <u>h</u> ange
	Check list/s where GID of this Germplasm should be set to zero(0)
List/s where this Germplasm is present	□ SMTA(-42)
Dependencies	Prog. No Name
Preheudencies	1 P 2 S 2 IR 69502-6-SEN 3 2 IR 69502-6-SEN 2 IR 69502-6-SEN 2 IR 69502-6-SEN 2 IR 69502-6-SEN 2 IR 69502-6-SEN 3
	V Display all dependencies
	Ok to All OK Cancel Cancel to All

#### **Future Plans**

- Calculate Coefficient of Parentage
- Accept Designation/Name entry in lower case
- Skins
- Option to display DMS data in lists
- Option to define a "standard" SetGen list with default "extra columns"
- list of feature requests/bug fixes from users



#### ICIS Developers' Workshop 2007 SetGen 5.4.1

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