

ICIS Workbook

version 5.5.1

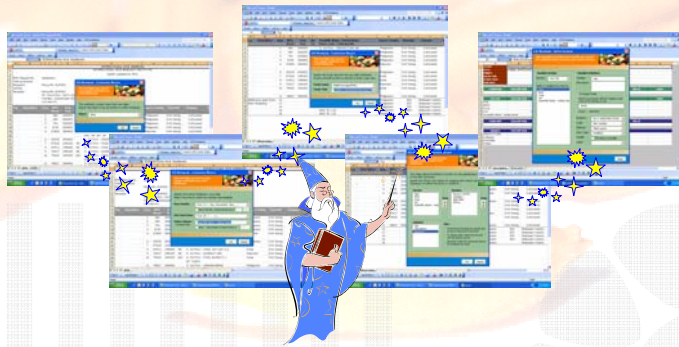
What's available and where are we heading?

Warren Vincent Constantino

ICIS Workbook Features...



File Conversion Wizard: Easily migrate your existing data into ICIS.



ICIS Workbook offers the file conversion wizard, a few clicks away towards converting your existing data stored in ordinary Excel files to the ICIS Workbook format. Five informative dialog interfaces guide you along the way. Just click, drag-and-drop, or type a few letters with the auto-complete feature and your data will be migrated in no time. No need to follow strict formats, no more complicated instructions.

Microsoft Excel - Upload 2003

Study: Setup - Utilities - Add-ins - Help

Upload 2003 Wet Season F4 Nursery (Shalson)

Ecosystem: Upland
Year: 2003
Season: WS
Location: Sinaloa, Laguna
Scientist: Laza, Marcelino

ENTYNO	GD	DESIGNATION	PLOT	FLW	HT	Vg	PACP	YLD
The entry number of the sample	The germplasm identifier of the vial/sample in IRIS	The variety or line name where the seed sample belongs	The plot number of the sample	No. of days from seeding to 50% flowering	Plant Height	Seeding vigor	Phenotypic acceptability at maturity	Pilot Yield (grams/plot)
1	1356801	CN 1229-9-2-5	1	102	92	3	3	2100
2	1268561	HR 1513-11-2-3-1-4-2-3	2	80	61	5	5	1400
3	427376	IR 7870-16-2-3-2	3	117	80	3	3	1900
4	1129298	IR 03A168	4	107	68	3	3	1500
5	1252381	IR 04A285	5	102	89	3	5	700
6	1342001	IR 04A333	6	89	104	3	5	1300
7	1254166	IR 04A381	7	88	88	3	2	1500
8	1364163	IR 04A382	8	83	82	6	2	600
9	1252889	IR 04A421	9	93	81	3	5	1200
10	1284357	IR 04A555	10	93	102	5	3	1600
11	1116097	IR 35546-17-3-1-3	11	88	68	5	6	700
12	666470	IR 66613-25-SRN1-1-1RN1-4-1-B	12	107	66	5	3	1400
13	623848	IR 72892-77-2-2-2	13	93	93	1	3	1600
14	1181319	IR 04A195	14	122	92	5	14	1800
15	1268473	IR 3888-82-3-3-2	15	66	109	6	3	1600
16	1264948	IR 05K106	16	84	76	3	5	800
17	1268600	IR 04A102	17	68	105	1	3	1800
18	1161320	IR 9584-41-2	18	117	95	1	3	1200
19	987369	IR 02A127	19	83	72	3	6	800
20	1189532	IR 03A289	20	93	94	3	2	1200
21	1189548	IR 03A291	21	102	100	5	3	1800
22	1076184	OM 1480	22	83	69	6	3	1400
23	1076195	OM 1936	23	102	100	5	3	1600
24	1076202	OM 4495	24	84	68	1	3	1100
25	1076209	OM 4498	25	123	121	1	1	2500
26	1076201	OM 4637	26	102	98	3	1	2000
27	402658	OM 476	27	95	77	6	3	1000
28	1076200	OM 5923-1	28	84	68	5	6	800
29	1076212	OM 6048-2	29	95	95	3	5	900
30	1076213	OM 6048	30	76	70	6	6	700
31	1076214	OM 6050	31	102	94	5	3	1800
32	1076203	OM 6051	32	88	69	1	1	1300
33	1076186	OMAS 2000	33	114	98	3	1	1900
34	80517	IRRI 150	34	97	116	3	2	1800

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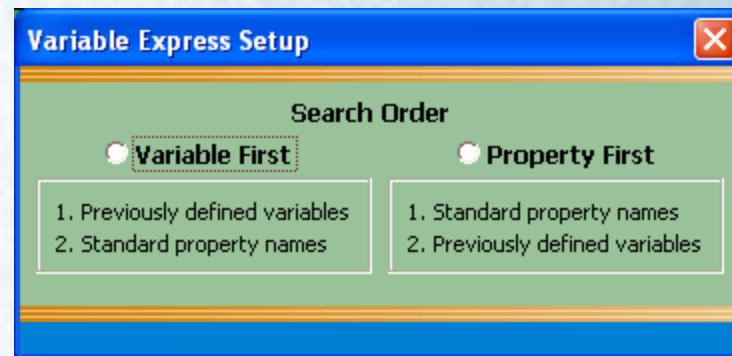
ICIS Workbook Features...



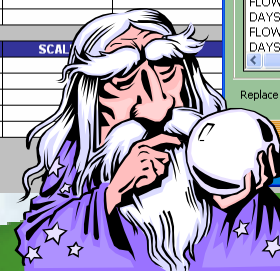
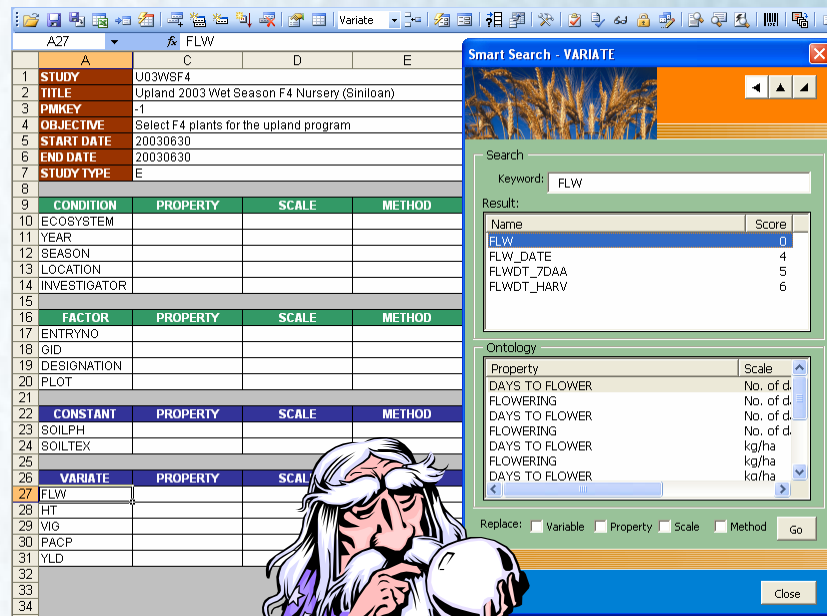
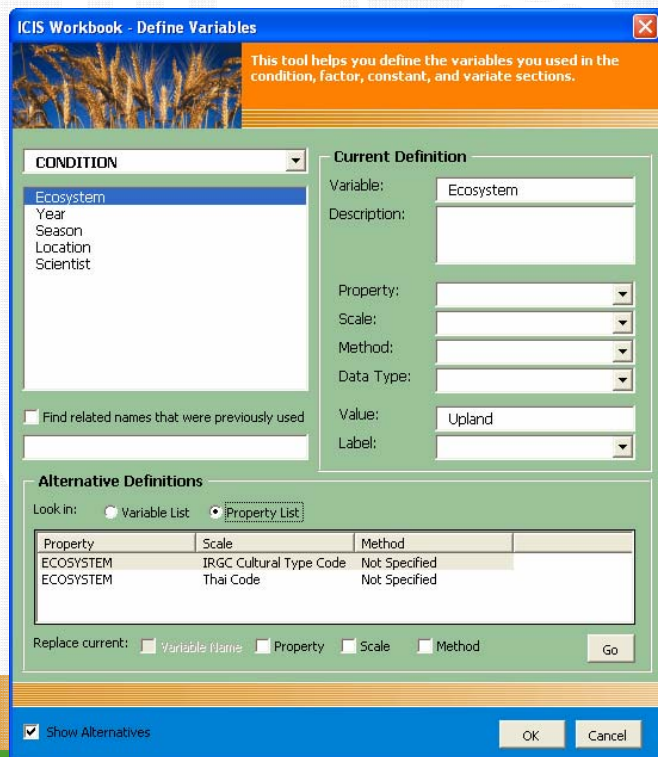
1

Smart Search: *Incorporating intelligence to guide and to automate.* With the smart search mechanism built into the ICIS Workbook, filling-up information is almost automated. ICIS Workbook implements a pattern matching search algorithm to look for column headings, variable names, ontology, and other information then sets the default values automatically. Thus, saving you lots of clicks and keystrokes.

It offers three ways to fill-up your variable definitions: Express Setup, Custom Setup, and Variable List Look-up.



2



ICIS Workbook Features...



ICIS Workbook - Valid Values

This tool helps you define the valid values that can be used in the condition, factor, constant, and variate sections.

VARIATE

Variable	Scale
FLW	No. of days
HT	cm
VIG	SES Score Vig...
PACP	SES Score Acc...
YLD	g/plot

Valid Values

Range

between (inclusive)

List

DB...	Description	WBK Value	Freq...
1	Extra vig...		
3	Vigorous ...	3	17
5	Normal (...)	5	16
7	Weak (pl...)	1	6
9	Very we...		

Valid Values: Tips here, there, and everywhere.

Still at lost with what data to enter in a particular cell? ICIS Workbook allows an administrator to define valid values in the database and impose these values for the encoder to choose from. Thus, you can apply quality control on your data.

With a click of a button, these valid values are displayed as comments in the corresponding cells. So the user can easily know what values are expected by the system.

STUDY

STUDY	U03WSF4
TITLE	Upland 2003 Wet Season F4 Nursery (Siniloan)
PMKEY	-1
OBJECTIVE	Select F4 plants for the upland program
START DATE	20030630
END DATE	20030630
STUDY TYPE	E

E - Experiment
N - Nursery
S - Survey
M - SMTA
Q - Genotype
G - QTL

CONDITION	SCALE	VALUE	LABEL
ECOSYSTEM	Type	Upland	STUDY
YEAR	4-digit	2003	STUDY
SEASON	Season Code	WS	STUDY
LOCATION	Name	Siniloan, Laguna	STUDY
INVESTIGATOR	Name	Laza, Marcelino	STUDY

FACTOR	SCALE	LABEL
ENTRYNO	Entry Number	ENTRYNO
GID	GID	ENTRYNO
DESIGNATION	Variety Name	ENTRYNO
PLOT	Plot number	PLOT

CONSTANT	SCALE	VALUE
SOILPH	pH value	8
SOILTEX	INGER Code 14pt	40

VARIATE	SCALE
FLW	No. of days
HT	cm
VIG	SES Score Vigor 5pt
PACP	SES Score Acceptability 5pt
YLD	g/plot

D	E	F	G	H	I	J	K
PLOT	FLW	HT	VIG	PACP			
plot number	No. of days from seeding to 50% flowering	Plant Height	Seedling Vigor	Phenotypic Acceptability at maturity	PI (g)		
e sample							
1	102	92	3	3	1 - Excellent		
2	80	61	5	5	3 - Good	1400	
3	117	80	3	1	5 - Fair	1900	
4	107	98	3	3	7 - Poor	1500	
					9 - Unacceptable		

ICIS Workbook Features...



The screenshot shows a Microsoft Excel spreadsheet titled 'Study'. The spreadsheet contains various fields for study information, including 'STUDY', 'TITLE', 'PRIORITY', 'CULTIVAR', 'START DATE', 'END DATE', 'STUDY TYPE', 'CONVENTION', 'ECCOSYSTEM', 'YEAR', 'SEASON', 'LOCATION', 'INVESTIGATOR', 'FACTOR', 'ENTRYNO', 'OID', 'DESIGNATION', 'PLOT', 'CONSTANT', 'SOILPH', 'SOILTEX', 'VARIATE', 'FLW', 'HT', 'VIG', 'PACP', and 'VLD'. The 'Data Validation' dialog box is open, showing a list of checked items and their error details. The 'ECOSYSTEM' section is expanded, showing a list of scales and their values.

Checked/New	Suggested/Stored	Error Detail
<input checked="" type="checkbox"/> Upland		Value doesn't fall under specified scale.
<input checked="" type="checkbox"/> Season Code	1-2 CODE	Scale doesn't exist yet.
<input checked="" type="checkbox"/> 50% Flowering	80% Flowering	Method doesn't exist yet.
<input checked="" type="checkbox"/> GRAIN YIELD	GRAIN YIELD	Property doesn't exist yet.
<input checked="" type="checkbox"/> g/plot	g/plot	Scale doesn't exist yet.

Scale	Value	Description
<input checked="" type="checkbox"/> IRGC Cultural ... 1	1	Irrigated
<input checked="" type="checkbox"/> IRGC Cultural ... 2	2	Rainfed lowland
<input checked="" type="checkbox"/> IRGC Cultural ... 3	3	Deepwater
<input checked="" type="checkbox"/> IRGC Cultural ... 4	4	Inland

Data Validation: Spot errors easily thus ensuring data integrity.

As a second line of defense against erroneous data entry, ICIS Workbook performs check routines and lists all errors detected in a data validation window.

Erroneous cells are color-coded for visualization. Clicking on these cells would select the corresponding error list entry, and vice versa.

Through the built-in intelligence, the system offers suggested corrections for each error, thus offering a smooth data validation experience.

This screenshot provides a more detailed view of the 'Data Validation' dialog box. It shows the 'Checked/New' column with checkboxes for 'Upland', 'Season Code', '50% Flowering', 'GRAIN YIELD', and 'g/plot'. The 'Suggested/Stored' column shows the corresponding values or properties. The 'Error Detail' column provides the specific error message for each item. The 'ECOSYSTEM' section is expanded, showing a list of scales and their values, with checkboxes for each scale.

Checked/New	Suggested/Stored	Error Detail
<input checked="" type="checkbox"/> Upland		Value doesn't fall under specified scale.
<input checked="" type="checkbox"/> Season Code	1-2 CODE	Scale doesn't exist yet.
<input checked="" type="checkbox"/> 50% Flowering	80% Flowering	Method doesn't exist yet.
<input checked="" type="checkbox"/> GRAIN YIELD	GRAIN YIELD	Property doesn't exist yet.
<input checked="" type="checkbox"/> g/plot	g/plot	Scale doesn't exist yet.

Scale	Value	Description
<input checked="" type="checkbox"/> IRGC Cultural ... 1	1	Irrigated
<input checked="" type="checkbox"/> IRGC Cultural ... 2	2	Rainfed lowland
<input checked="" type="checkbox"/> IRGC Cultural ... 3	3	Deepwater
<input checked="" type="checkbox"/> IRGC Cultural ... 4	4	Inland

ICIS Workbook Features...



Barcode Entry: Connect with other input devices and locate your desired cell instantly.

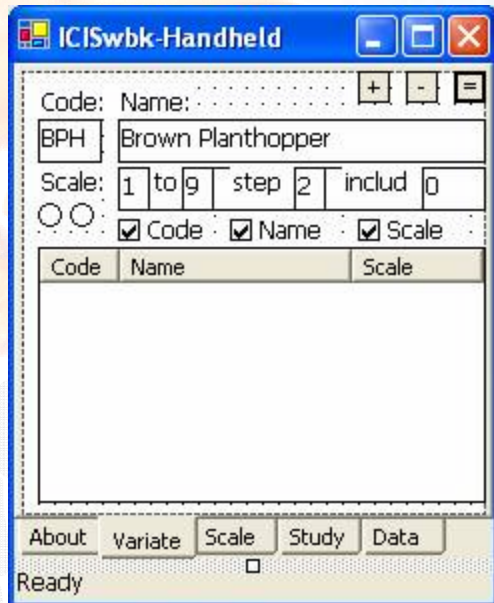
Finding the right cell in a big spreadsheet is not an easy matter. So let ICIS Workbook find it for you through its barcode entry interface.

A combination of a barcode reader and a measuring device (for example, an electronic balance) does the job in a short time, minus the eye strain and exhausted fingers. Just try not to fall asleep while working.

The screenshot shows the 'Barcode Entry' dialog box in the ICIS Workbook application. The dialog has a 'Factor' dropdown set to 'ENTRYNO' and a 'Variate' dropdown set to 'YLD'. Below these, there are input fields for 'Previous' (value: 25) and 'Next' (value: 250). The main window displays a spreadsheet with the following data:

ENTRYNO	GERM	DESIGNATION	PLOT	FLW	HT	VIG	PACP	YLD	REMARK
The entry number of the sample	The germplasm identifier of the variety/line in IRIS	The variety or line name where the seed sample belongs	The plot number of the sample	No. of days from seeding to 50% flowering	Plant Height	Seeding Vigor	Phenotypic Acceptability at maturity	Plot Yields (grams/plot)	Description
1	1	CN 1 229-9-3-2-5	1	102	92	3	3	2100	
2	2	HR 1 7512-18-2-3-1-2-3	2	80	61	5	5	1400	
3	3	IR 72970-19-2-2-3	3	117	80	3	1	1900	
4	4	IR 03A158	4	107	98	3	3	1500	
5	5	IR 04A285	5	102	89	3	5	700	
6	6	IR 04N133	6	93	104	3	5	1200	
7	7	IR 04A381	7	98	88	3	3	1500	
8	8	IR 04A382	8	93	82	5	7	800	
9	9	IR 04A421	9	93	81	3	5	1200	
10	10	IR 04N155	10	93	102	5	3	1600	
11	11	IR 35546-17-3-1-3	11	89	86	5	5	700	
12	12	IR 69513-23-SRN 1-UBN 4-1-B	12	107	99	5	3	1400	
13	13	IR 72992-77-2-2-2	13	93	93	1	3	1600	
14	14	IR 05K105	14	122	82	5	3	1800	
15	15	IR 73688-82-2-3-2-2	15	98	109	5	3	1600	
16	16	IR 05K106	16	84	76	3	5	800	
17	17	IR 04K102	17	99	105	1	3	1900	
18	18	IR 73694-41-2	18	113	95	1	3	1200	
19	19	IR 02A127	19	83	72	3	5	800	
20	20	IR 03A389	20	93	94	3	3	1200	
21	21	IR 03A391	21	102	100	5	3	1800	
22	22	OM 1 490	22	83	99	5	3	1400	
23	23	OM 2536	23	102	100	5	3	1600	
24	24	OM 4 495	24	84	89	1	3	1100	
25	25	OM 4 499	25	123	121	1	1		
26	26	OM 4 837	26	102	98	3	1	2000	
27	27	OM 5 76	27	98	77	5	3	1000	
28	28	OM 5 933-1	28	84	96	5	5	800	
29	29	OM 6 048-2	29	75	85	3	5	800	
30	30	OM 6 049	30	75	70	5	5	700	
31	31	OM 6 050	31	102	94	5	3	1800	
32	32	OM 6 051	32	98	89	1	1	1300	
33	33	OM 6 2000	33	114	98	3	1	1900	
34	34	IRRI 108	34	97	116	3	3	1800	
35	35	VD 20	35	102	102	3	3	1600	
36	36	WAS 127-12-1	36	75	72	5	5	700	
37	37	IR 50	37	112	95	3	3	1400	
38	38	IR 64	38	107	84	5	5	800	
39	39	IR 72	39	93	73	2	7	700	

ICIS Workbook Features...




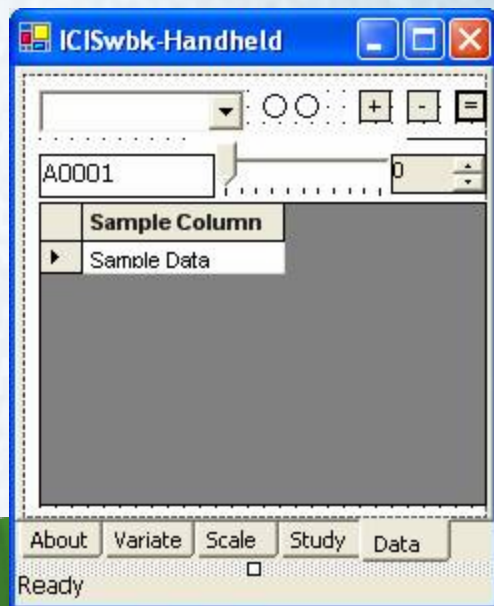
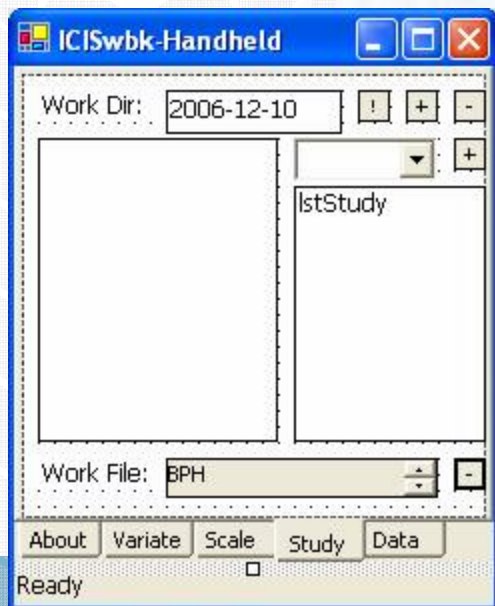
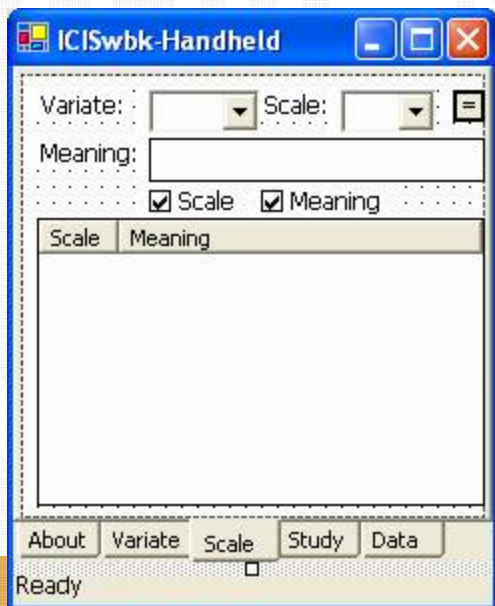
Handheld: Taking ICIS out to the fields.

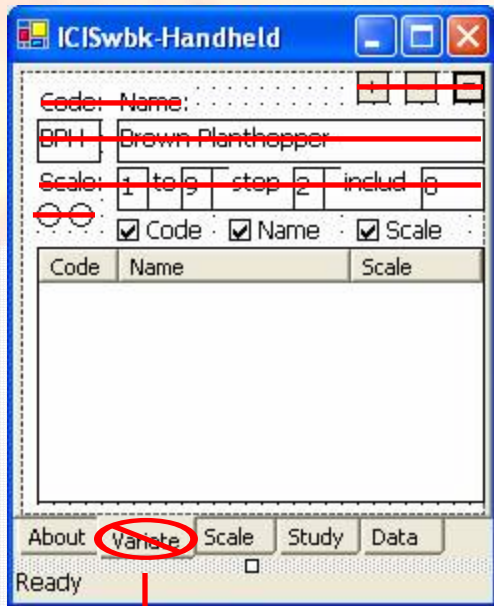
A growing demand for handheld device support has revived the call for the proposed "ICISwbk-Handheld" that was first designed in December 2006, but was overtaken by other development priorities.

This miniature Workbook is being designed in the same way as the main application to accommodate all types of study.

Synchronize Handheld

A new menu and toolbar icon  will be added to the main application for synchronizing data between the two applications.





Description

Factor:

Code	Name	Scale

Variate:

Redesigning the Handheld: *Description Tab.*

Shows details on the factor and variate codes being used.

What's all the red lines?

The handheld version was originally designed to stand on its own in terms of creating studies. However, an issue was raised in the 2007 Workshop that why bother doing these setup in handheld when you can do it in the main application and download it to the handheld?

Advice taken. However, now that an issue came out in GCP that Principal Investigators don't have to be ICIS-literate for us to get their data, I'm just thinking if the old design is worth considering? Comments?

ICIS Workbook Features...



ICISwbk-Handheld

Variate: PACP Scale:

Meaning:

Scale Meaning

Scale	Meaning
1	Excellent
3	Good
5	Fair
7	Poor
9	Unacceptable

About Variate Scale Study Data

Ready

Variate: HT

or

Rule	Min	Max
between	50	100

depending on scale type:
discrete or continuous

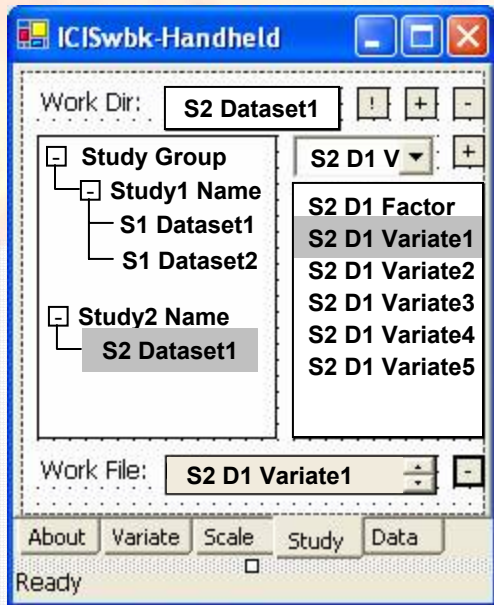
Redesigning the Handheld: Scale Tab.

Provides a quick reference on the scale values being used.



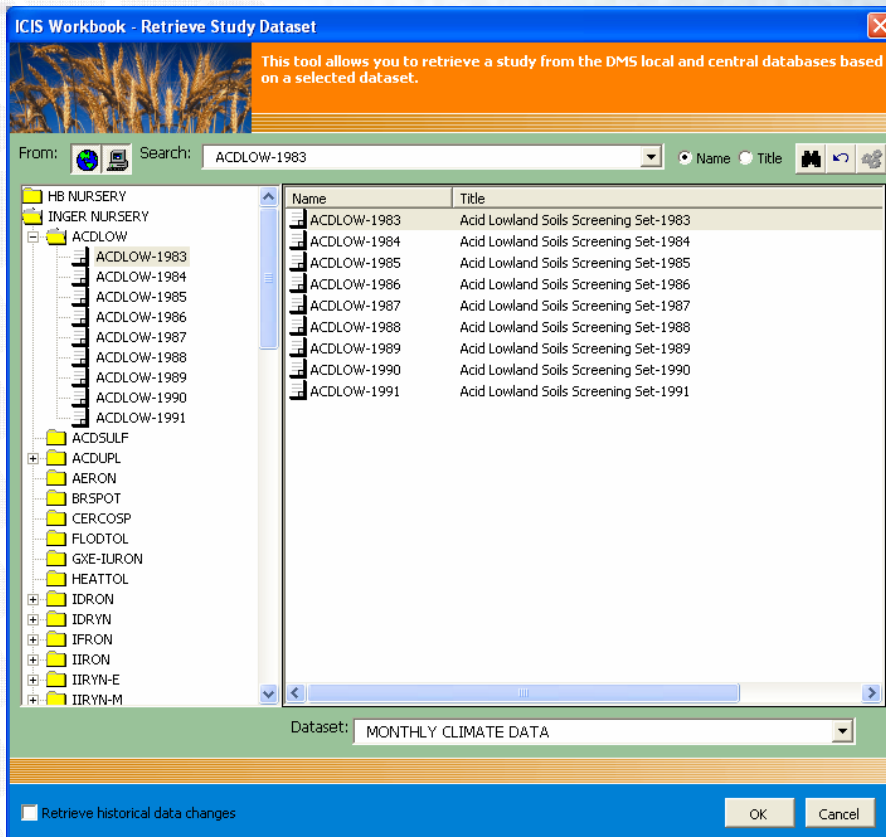
D	E	F	G	H	I	J	K
PLOT	FLW	HT	VIG	PACP	PI		
plot number	No. of days from seeding to 50% flowering	Plant Height	Seedling Vigor	Phenotypic Acceptability at maturity	PI (g)		
1	102	92	3	3	1 - Excellent 3 - Good 5 - Fair 7 - Poor 9 - Unacceptable		
2	80	61	5	5	1400		
3	117	80	3	1	1900		
4	107	98	3	3	1500		

ICIS Workbook Features...



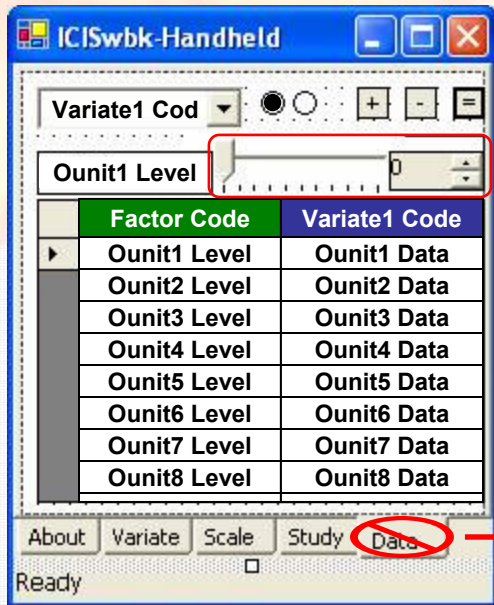
Redesigning the Handheld: *Study Tab.*

Since there isn't any database for handheld that is freely available*, the application will use text files to represent each factor/variante column, and directories to represent studies and datasets.



* Please excuse me for my lack of knowledge. Though I assume text files would give faster performance...

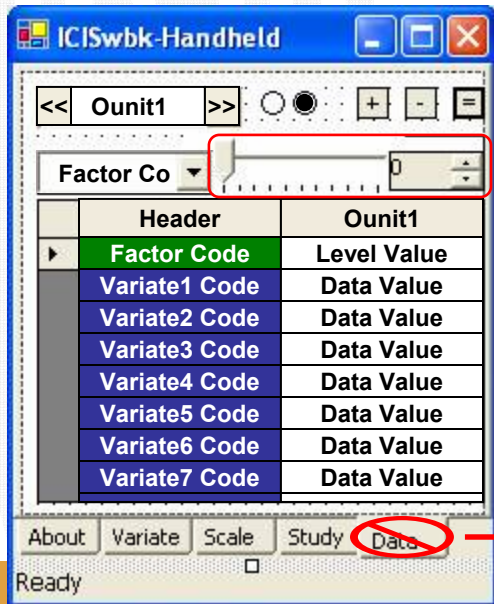
ICIS Workbook Features...



or

depending on scale type:
continuous or discrete

→ Observation



or

depending on scale type:
continuous or discrete

→ Observation

Redesigning the Handheld: Observation Tab.

Due to limited screen space, only two columns can be seen on screen.

But there are two designs for the screen layout which the user can specify through a pair of option buttons.

Option 1: one column is for the factor and the other column is for the current variate being measured.

Option 2: one column is for the factor and variate names and the other column is for the current observation unit.

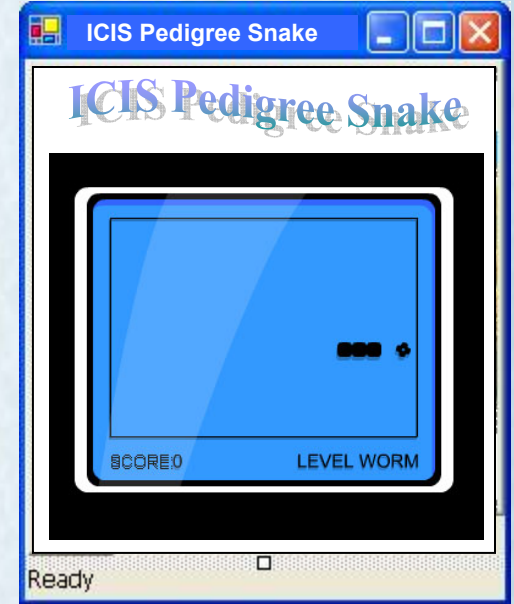
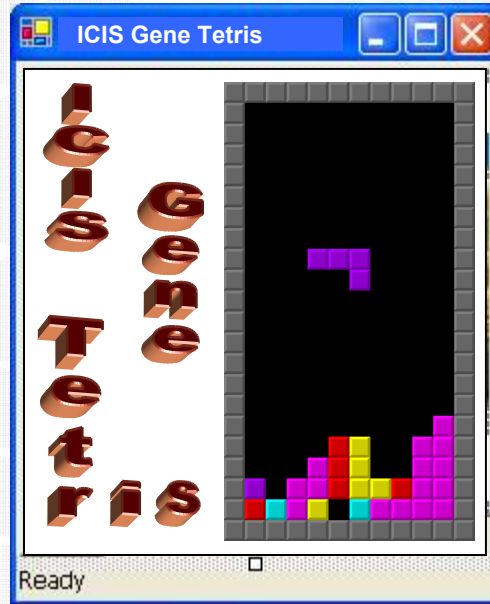
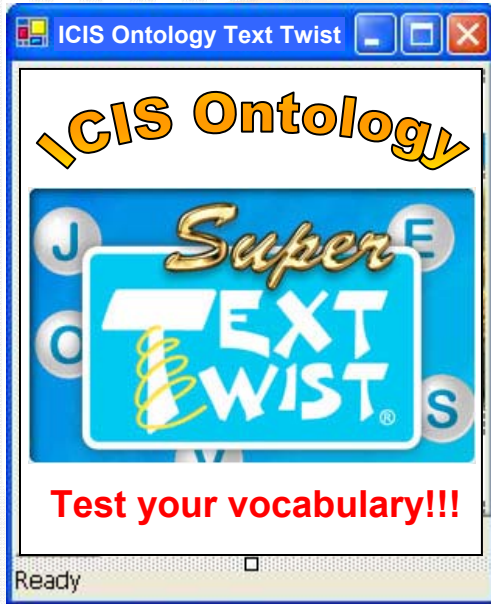
Note:

An issue here is whether to allow more than one factor for identifying each observation unit? Or just to have an additional tab that would let the user define a “key factor” to identify the combination of factor levels? Doing this in the handheld means not having to add an extra column in the main template. Comments?

ICIS Workbook Features...



Handheld Future Developments: *Because we intend to be more and more user-friendly...*



Joke!

Joke!

Joke!