FICS User Manual V 1.0

updated June 28, 2006

1. OPEN FICS.xls & ENABLE MACROS

If a dialog box (Figure 1) opens automatically with a message about macros, choose to "Enable Macros." In cases when this box does not show up or a warning message (Figure 2) shows up, you should lower the macro security level to "Medium" as shown in Figure 3. Close the Excel program and reopen it in order to enable macros capabilities (Figure 1).

Microsoft Excel		<u>? ×</u>
C:\GEPRO.xls contains ma	cros.	
		1 1.070
macros may contain viruse macros are legitimate, you	s, It is always sare to disat might lose some functional	lie macros, but if the lity.
Disable Macros	Enable Macros	More Info

Figure 1. A dialog box asking whether to disable or enable macros. When you open the file FICS.xls, a dialog box will appear asking if you want to enable macros or not. Choose to *Enable Macros*.

Microsoft	Excel
1	Macros in this workbook are disabled because the security level is high, and the macros have not been digitally signed or verified as safe. To run the macros, you can either have them signed or change your security level. Click Help for more information.



🔀 Microsoft Excel - FICS			Security ?
Eile Edit View Insert Format	Tools Data Window	Help – & ×	Security Level Irusted Sources
E a ad hatala	Protection +	On man dials and	C High. Only signed macros from trusted sources will be allowed
Feed Intak	<u>G</u> oal Seek	Spreadsneet	Medium, You can choose whether or not to run potentially
FEEDING DATA	Sol <u>v</u> er	RRECTION CLEAR	unsafe macros.
	<u>M</u> acro ►	Macros Alt+F8	Low (not recommended). You are not protected from potentially unsafe macros. Use this setting only if you have virus cooperations of two installed, or you have checked the
Feeding period (days) :	Options	<u>R</u> ecord New Macro	safety of all documents you open.
ME of feed (kcal/kg) :	×	Security	
Including Outlier (kg) (kg)	(kg) (g) (g)	2 Visual Basic Editor Alt+F11 (kg)	
Initial wt Final wt	FI ADG ADFI	→ otal FI	
Figure 3. Security level ch	ange.		No virus scanner installed.

1

Cancel

ОК

2. INPUT FEEDING DATA

Clicking "Feeding Data" activates a window where feeding information is input including feeding period, consumed feed amount per pen, ME (kcal/kg) of feed, the number of pigs in the pen, and a pig identified as a potential outlier (Figure 4). After clicking the "OK" button, users can input the initial and final weight of the pigs for the period in the bordered blank cells (Figure 5).

🔀 Micro	soft Ex	cel - FIC	5									_ 🗆	×	Inp	out the feeding i	nformati	ion
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		Fe	ed l	ntak	e Co	orrec	tion	Sp	preads	shee	t		-1	Fee	eding period :	10	(day
					1	_								Fee	eding amount :	80	(kg c
		FEEL	JING D			F	EED CC	ЛКК	RECTION		CL	EAR		ME	of feed :	3265	(kcal
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	Fee	eding an	nount (kj	g):		ID of	f outlier p	ig :						ID	of outlier pig :	2	
	ME	otteed	(ксаикд)):				_							weight data input	the seque :, e.g., 2 f	for the

Figure 4. Opening feeding data input window and feeding information input.



Figure 5. Initial and final body weight input.

? X

▼ (days) (kg or lbs) (kcal/kg)

Cancel

ОK

3. INDIVIDUAL FEED INTAKE ESTIMATION

Clicking "Feed Correction" shown in Figure 6 will calculate individual feed intake of all pigs, corrected pen feed intake, and the feed:gain ratio (Figure 7).

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	Eile	<u>E</u> dit	⊻iew	Insert	F <u>o</u> rmat	<u>T</u> ools	<u>D</u> ata	<u>W</u> indow	Help			_ 8 ×
			F	eed l	ntak	e Co	orrec	tion	Spre	eadshe	et	
			FEE	DING D	АТА		F	EED CO	ORREC		c	LEAR
		Feeding period (days) : 10 Feeding amount (kg) : 80 ME of feed (kcal/kg) : 3265						Number of pigs / pen : 4 ID of outlier pig : 2				
	Includi	ng Ou	utlier 1 2 3 4	(kg) Initial wt 50 50 50 50	(kg) Final wt 60 54 61 59	(kg) Fl	(g) ADG	(g) ADFI	FCR	(kg) Maint Fl	(kg) Growth Fl	(kg) Total Fl

Figure 6. Feed intake correction.

Individual feed intake of all the pigs is calculated (Figure 7-^(a)), the corrected pen feed intake and feed:gain ratio are shown in Figure 7-^(f). An outlier confirmation procedure, which shows the difference of the outlier's growth from its pen mates, is also included in the macro (Figure 7-^(a)).

N	licros	oft E	кcel - F	ICS								_ 🗆 🗙
8	<u>F</u> ile	<u>E</u> dit	⊻iew	Insert	F <u>o</u> rmat	<u>T</u> ools	<u>D</u> ata	<u>W</u> indow	<u>H</u> elp			_ 8 ×
			F	Feed	Intak	e Co	orrec	tion	Spre	adshe	et	
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In	cludi	ng C @)utlier	(kg) Initial w	(kg) t Final wt	(kg) Fl	(g) ADG	(g) ADFI	FCR	(kg) Maint Fl	(kg) Growth Fl	(kg) Total Fl
		<u> </u>	1	50.0	60.0		1000			6.6	15.9	22.5
			2	50.0	54.0		400			6.3	6.4	12.6
			3	50.0	61.0		1100			6.6	17.5	24.1
			4	50.0	59.0		900			6.5	14.3	20.8
		Pen	mean	50.0	58.5	80.0	850	2000	2.35	26.0	54.0	80.0
Ex	clud	ing (Dutlie	r (kg)	(kg)	(kg)	(g)	(g)				
		U		Initial w	t Final wt	FI	ADG	ADFI	FCR			
			1	50.0	60.0		1000			OUTLIE	RCONFIRM	IATION
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			3	50.0	61.0		1100			-10.4	x SE and	-
		Dav	4	50.0	59.0	07.4	900	0045	0.05	-60.0	% different	
		Pen	mean	50.0	60.0	67.4	1000	2245	2.25	from oth	ter pigs in th	ie pen.

Figure 7. Feed intake correction result.

Potential error warnings are included in the macro to avoid accidental wrong selection of the pig for exclusion (Figure 8). This message will show up when the selected outlier pig's weight gain is not the largest or smallest in the pen.

Outlier Error	×
Outlier pig you selected does not show largest nor smallest ADG in the pen. Please make sure that you input the correct ID of the outlier pi pigs	g and weight of the
(ОК]	

Figure 8. Outlier error warning.

Users can calculate individual feed intake of the other pens using the buttons on the top (Figure 7- $@\sim$ ©). If the number of pigs in the pen and a potential outlier pig's ID (assigned in Figure 4) is the same, users may simply change blue-color numbers in Figure 7-@, @.