

Tru-Test WinWeigh

Version 2.1

User Manual



TRU-TEST
WinWeigh 2TM

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Please note that your computer must have an available, working, serial COM port in order to communicate with the Indicator. This excludes PCs that have only two serial ports already dedicated to an internal modem and a serial mouse. In this case, you must change the PC configuration either to a bus mouse or to an external modem in order to make available a serial port for WinWeigh to use. This is a restriction imposed by the PC architecture, not by the WinWeigh software. If you have an external modem connected to COM1 or COM2, disconnect it and use this port for connection to the indicator

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Introduction

About WinWeigh 2

WinWeigh is a Windows based animal performance program. It automatically loads data from *TRU-TEST* weighing systems and provides facilities to manipulate and present the data in many useful ways.

Using WinWeigh 2 you can:

- Sort animals by many different criteria including total weight gain, daily weight gain and condition code.
- Predict future live or carcass weights.
- Predict number of days to reach a live or carcass weight.
- Maintain a database of animal details.
- Plot charts comparing actual and target weights.

WinWeigh 2 operates on a personal computer and connects to a *TRU-TEST* weighing system Indicator. Communications are automatically handled by the program.

WinWeigh 2.0b and later versions are Year 2000 compliant.

What You Need to Run WinWeigh 2

Computer

You need an IBM (or compatible) personal computer that is capable of running Microsoft Windows version 3.1 or later.

Please note that your computer must have an available, working, serial COM port in order to communicate with the Indicator. This excludes PCs that have only two serial ports already dedicated to an internal modem and a serial mouse. In this case, you must change the PC configuration either to a bus mouse or to an external modem in order to make available a serial port for WinWeigh to use. This is a restriction imposed by the PC architecture, not by the WinWeigh software. If you have an external modem connected to COM1 or COM2, disconnect it and use this port for connection to the indicator

A minimum of 4MB of RAM and 4MB of free hard disk space for WinWeigh 2 to install and run effectively.

A 3.5" floppy disk drive.

Indicator

WinWeigh 2 can operate with the following Indicator models:

Dairy Manager

702

703

AG500-02 version 3

AG500-02 version 3

WinWeigh 2

WinWeigh 2 is supplied on two 3.5" floppy disks, complete with an installation program.

The cable to connect the Indicator to the computer is also supplied.

What You Need to Know

Windows

Before running WinWeigh you should be familiar with standard Windows 95 or Windows 3.1x procedures such as how to start a program and how to load and save files. For information on this, refer to your Windows manual.

Indicator

You need to know how to operate the *TRU-TEST* Indicator. For information on this, refer to your Indicator user manual.

Printer

For printing reports, you need to know how to operate your printer. WinWeigh uses the standard Windows printer drivers and setup routines.

Installation

WinWeigh 2 comes with a setup program that automatically creates the necessary folders/directories on your hard disk and installs the software. The software on the floppy disks is in a compressed format that cannot just be copied to your hard disk and then run.

Once installed, the **WinWeigh 2** icon appears in a WinWeigh folder in the Programs folder (Windows 95), or in a WinWeigh group in Program Manager (Windows 3.1x). A Read Me icon is also installed in the WinWeigh folder or group. You should read this file after installation.

To Install WinWeigh 2

1. Start your computer and Windows in the normal way.
2. Insert “WinWeigh 2, Disk 1” in drive A: .
3. Click **Start** then **Run** from the Desktop (Win95), or **File** then **Run** in Program Manager (Win3.1x).
In the command line box, type: A : \SETUP
4. Click on **OK**.
5. The setup program loads and displays instructions on screen.
6. Follow instructions to install and register WinWeigh 2. (Contact your WinWeigh agent for the Access Code.)
7. When Setup has finished, remove “WinWeigh 2, Disk 2” and keep both disks in a safe place.

This completes the installation of WinWeigh 2.

To run WinWeigh 2, see *Basic Operation and Terminology* on page 6.

Default Folder/Directory Structure

The following list shows what files are normally saved in the default folders (Windows 95) or directories (Windows 3.1x) created by the WinWeigh 2 setup program.

<code>\WINWEIGH\PROGRAM</code>	WinWeigh programs.
<code>\WINWEIGH\INDICATR</code>	Weighing session data.
<code>\WINWEIGH\BEEF</code>	Weight gain sheets for beef.
<code>\WINWEIGH\DEER</code>	Weight gain sheets for deer.
<code>\WINWEIGH\SHEEP</code>	Weight gain sheets for sheep.
<code>\WINWEIGH\HOG</code>	Weight gain sheets for pigs/hogs.
<code>\WINWEIGH\DAIRY</code>	Weight gain sheets for dairy cows.

Basic Operation and Terminology

This section describes how to start WinWeigh 2 and explains the terminology. For instructions on particular procedures, see *WinWeigh Procedures* on page 11.

Running WinWeigh

Before running WinWeigh you may need to connect the Indicator to the computer. For instructions, see *Indicator ↔ Computer Communications* on page 10.

To run WinWeigh 2, start your computer and Windows in the normal manner, then click on **WinWeigh 2.1** in the WinWeigh folder in the Programs folder (Windows 95), or double click on the **WinWeigh 2.1** icon in Program Manager (Windows 3.1x).

The logo screen appears for a few seconds and then the WinWeigh 2 menu and toolbar are displayed.



The menu and toolbar functions are described in the *Reference Section* on page 44.

WinWeigh is largely a spreadsheet program. The working area on screen is known as the *Weight Gain Sheet* and uses common spreadsheet layout.

To get started, you need to download a file from a *TRU-TEST* Indicator, create a new weight gain sheet or load an existing one (see page 11).

The Weight Gain Sheet

The screenshot shows the WinWeigh 2.1 software window. The main window displays a table with columns for Units: kg Dairy Tag ID, Live Weight, Daily Gain, Cond Code, Live Weight, Daily Gain, Cond Code, Overall Daily Gain, and Wt in 30 days. The data rows are as follows:

Units: kg Dairy Tag ID	30/01/98	# 4		07/04/98	# 5		Overall Daily Gain	Wt in 30 days
	Live Weight	Daily Gain	Cond Code	Live Weight	Daily Gain	Cond Code		
97	370.0	0.38	4.0	395.0	0.38	4.5	0.37	406.4
100	392.0	0.58	5.0	420.0	0.42	6.0	0.50	432.7
167	400.0	0.48	5.0	450.0	0.76	5.5	0.65	472.7
213	410.0	0.63	6.0	450.0	0.61	6.0	0.60	468.2
Average	393.0	0.52	5.0	428.8	0.54	5.5	0.53	445.0

An 'Animal History' dialog box is open, showing details for Tag ID 97:

- Tag ID: 97
- Birth Wt (kg): 20.
- Birth Date: Wed, 01 Jan 1997
- Breed: Fxj
- Wean Wt (kg): 103.
- Arrival Date: Sat, 01 Nov 1997
- Sire ID: HarryIV
- Source: M. Jones
- Dam ID: 9268
- Remark: Treated front left foot 24/12/97
- Index: 72/56

Rows

Each row represents one animal. The animal's tag ID is shown in the left hand column.

You can have a maximum of 3000 rows (animals) on one weight gain sheet.

The bottom three data rows always contain the *Average* and *Total* weights (and condition codes, if numbers) and the *Count* (number of weights and number of numeric condition codes in each session).

Columns

The left hand column is reserved for the animal tag ID's. These are not editable in the weight gain sheet - the animal history database record has to be opened (see page 33).

Session Columns

The next columns show the data recorded in the weighing sessions or calculated for or between sessions. In standard view each session comprises three columns - *Live Weight*, *Weight Gain* (or *\$ Value*) and *Condition Code*. The *Condition Code* column can be hidden. The sessions are separated by vertical bold lines.

There is a maximum of 50 sessions per weight gain sheet.

Calculation/Prediction Columns

The two or three far right columns are used for calculated and predicted values and comprise:

Col 1 *Overall Weight Gain* (from the first session to the last)
or
Predicted \$ Value
(if “Display \$” is checked in **Sheet | Options**).

Col 2 *Carcass Weight* at time of last weighing
(note that this column is not present if “Carcass %” is set to zero or is blank in **Sheet | Options**).

Col 3 *Predicted Live/Carcass Weight*
or
Days to reach target Live/Carcass Weight

(depends on “Prediction Type” selection in **Sheet | Options**, predictions apply to *Carcass Weight* if “Carcass %” value in **Sheet | Options** is non-zero).

Sessions

Weighing sessions are sorted in date order from left to right, so that, if you add the data from a new session, it is automatically inserted in correct chronological order.

Cells

A cell is one item of data in one box on the spreadsheet. You can move from one cell to another by clicking with the mouse or using the arrow keys. The active cell is highlighted.

You can edit the data in the weight or condition code cells (see *Edit Data on the Weight Gain Sheet* on page 19).

If you change any data, the calculated figures are automatically updated.

Windows

You can have more than one weight gain sheet open at a time. Each weight gain sheet is displayed in a *window*. Use standard Windows methods to move between windows.

Menu Bar

The menu bar is always available at the top of the screen.

File Edit View Sheet Indicator Window Help

This gives you access to the functions of WinWeigh. All the functions are described in the *Reference Section* starting on page 44.

Toolbar

The toolbar contains buttons that you can select to give quick access to certain functions.



See page 44 for a description of each button.

Quitting WinWeigh

To quit WinWeigh, use the standard Windows methods.

Select File | Exit or press **Alt-F4**.

Indicator ↔ Computer Communications

WinWeigh 2 handles all communications with the Indicator automatically. All you need to do is connect the Indicator to the computer with the cable provided and establish communications.

Connecting the Cable

The communications cable must be connected to the Indicator, and a serial port on the computer.

In WinWeigh, you must select the computer port (e.g. COM1, COM2, etc.) that your Indicator is connected to.

Use the **Indicator | Options** menu.

Establishing Communications

If the Indicator is switched on and connected to the computer when you start WinWeigh 2, communications are established immediately.

If the Indicator was not on when you started WinWeigh, you can establish communications manually as follows:

Select **Indicator | Reset Indicator**.

WinWeigh establishes communications and, when finished, displays the following message:



Note: If you are not sure whether the Indicator and computer are communicating:

Select **Indicator | Reset Indicator**.

WinWeigh Procedures

This is the main section of the manual, it tells you how to carry out the common procedures in WinWeigh.

Use the contents list at the beginning of the manual to find the page number for the required procedure.

Typical Sequence of Operations

1. Open a new or existing weight gain sheet. Page 12 & 16
2. Download sessions (files) from the Indicator. Page 13
3. Select weight gain options. Page 22
4. Select sort options Page 30
5. View and perhaps manually edit the data. Page 19 & 21
6. Save the weight gain sheet. Page 16
7. Preview the reports on screen. Page 36
8. Print the reports. Page 37
9. Create graphs / charts Page 39

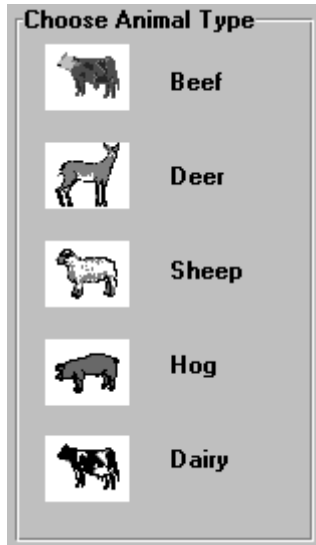
Note: The time that WinWeigh takes to re-calculate the weight gain sheet when you make changes depends on the processing speed of your computer.

If you have a slow computer, a large weight gain sheet may take several minutes to calculate.

Do not press any keys while the hourglass symbol is displayed in place of the mouse pointer.

Start a New Weight Gain Sheet

1. Select **File** | **New** or click on the New button on the toolbar.
2. Select the folder/directory (type of animal).



3. WinWeigh 2 opens a new weight gain sheet ready for information to be downloaded from your *TRU-TEST* Indicator.

You can then add sessions and animal data by one of the following means:

- Download a session file from your *TRU-TEST* Indicator. See page 13.
- Import a session file from computer disk. See page 18.
- Manually add a session. See page 19.
- Copy and paste a session from another weight gain sheet. See page 22.

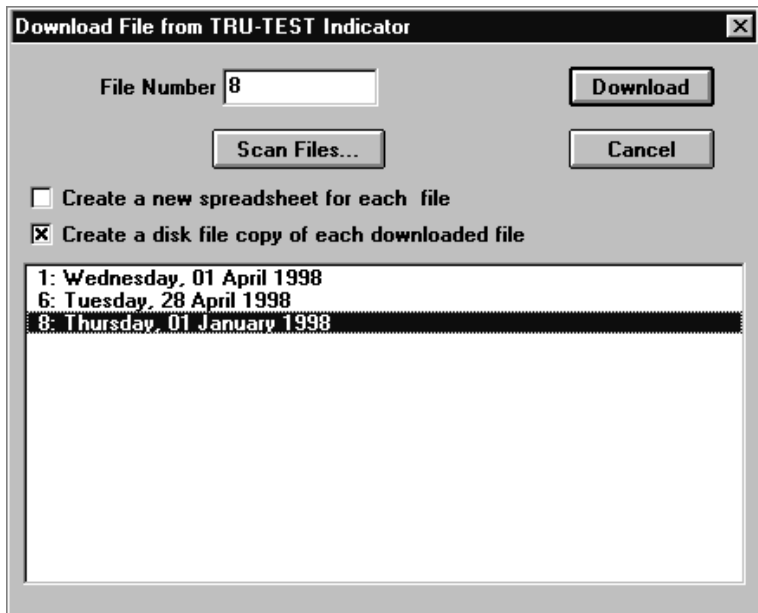
Download a Session from the Indicator

Use this process to load a file of weight data from the Indicator into the currently open weight gain sheet.

You need to know the file number of the required session on the Indicator.

The Indicator must be switched on and communications established (see page 10).

1. Select Indicator | Download File.



If you know the number of the file you want to download from the Indicator to your computer, simply enter the file number into the "File Number" box. Otherwise click on the "Scan Files..." button and select the file from the displayed list.

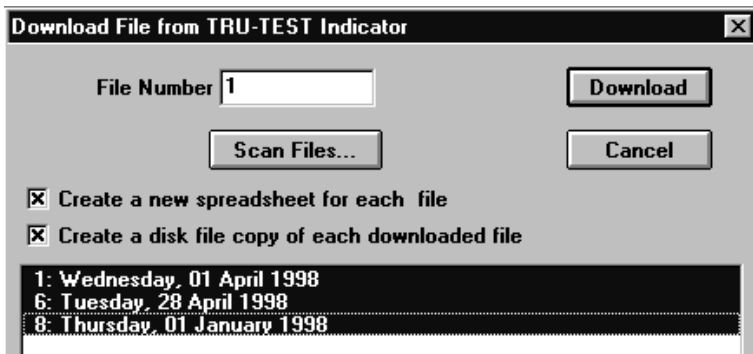
Indicator file number 8 in the above example is currently selected for downloading.

If you want to download all of the Indicator's files at once, and put each one into a new sheet (i.e. they are different groups of animals):

make sure that the first option box is checked;

click the left mouse button on the top file in the displayed list and drag the pointer to the bottom file before releasing the mouse button.

For example . . .

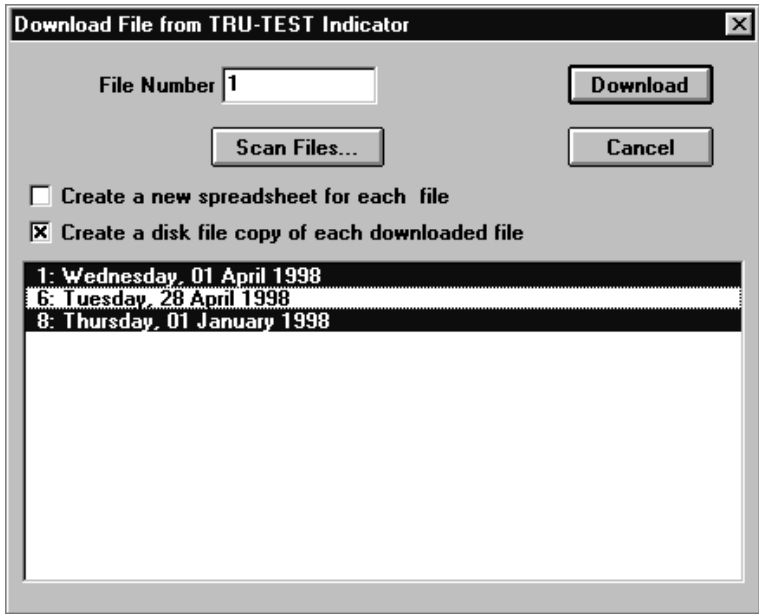


If, on the other hand, you only want to download a few files and place them into the same sheet (i.e. they are the different weighing sessions for the same group of animals):

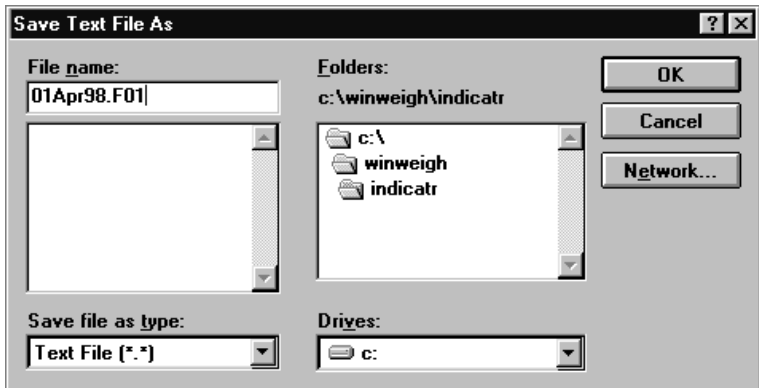
make sure that the first option box is unchecked;

hold down the **Ctrl** key and use the left mouse button to select the various files you want to download.

Using the same example as above, if you wanted to download only files 1 and 8 into the same sheet:



2. Select the "Download" button.
3. If you have checked the second option box above, you can save the file as an ASCII file. See *Export a Session to Computer Disk* on page 18 for further details.



4. If you have checked the second option box but now don't want to save the information in the Indicator file as an ASCII file, click on **Cancel**.

Save a Weight Gain Sheet

You can save a weight gain sheet to computer disk. The current data and all the settings of the sheet are saved and can be recalled later (see *Open an Existing Weight Gain Sheet* below).

You can save the sheet in its original folder/directory and file or with a new file name and/or in a different folder/directory.

To save the weight gain sheet in its original directory and file, select **F**ile | **S**ave or click on the Save button on the toolbar.

To save the weight gain sheet with a new name and/or in a different folder/directory, select **F**ile | **S**ave **A**s, then choose the required folder/directory and file name.

Open an Existing Weight Gain Sheet

1. Select **F**ile | **O**pen or click on the Open button on the toolbar.
2. Select the directory and file using normal Windows methods. The file extension is **.WGS** for weight gain sheets.
3. WinWeigh displays the weight gain sheet on screen with all its previous settings and data.

Note: You can use the standard Windows quick method of loading one of the most recently saved files by selecting **F**ile and then selecting the required file from the list at the bottom of the menu.

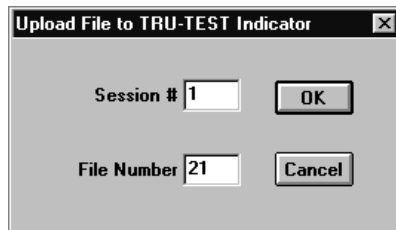
Upload an Existing Session to an Indicator

(TRU-TEST 703 and AG500-03 Indicators only.)

Use this process to transfer the data from a given session to a file on the Indicator.

You need to know the number of an empty file, or one that you are happy to overwrite, in the Indicator's memory.

1. Select **Indicator** | **Upload File**.



2. Enter the number of the session you want to transfer. Session numbers are shown next to the # sign at the top of each session.
3. Enter the file number where the data is to be saved in the Indicator's memory.
4. Click on **OK**.
The time to upload depends on the number of animals in the weighing session.
5. When the transfer is complete, WinWeigh returns to the weight gain sheet.

Import a Session from Computer Disk

Use this process to load the data from a weighing session that has been previously saved to computer disk.

1. Select **S**heet | **I**mport Session.
2. Select the file required using normal Windows methods. The session file names represent the dates of the sessions.
3. WinWeigh loads the session data and inserts it at the appropriate date position on the weight gain sheet.

Note: Data that can be imported into WinWeigh must have been saved in an ASCII file, see *Download a Session from the Indicator* on page 13 and *Export a Session to Computer Disk* below.

Export a Session to Computer Disk

Use this process to save the data from an individual session to computer disk. You can then import this data into any weight gain sheet.

The data is stored on disk as an ASCII file.

1. Select **S**heet | **E**xport Session.
2. Select the folder/directory (default is ..\winweigh\indicatr).
3. WinWeigh displays a default file name based on the date of the session and the Indicator file number. You can change the date or Indicator file number in the file name. However, you must use the same date format so that, when re-importing, WinWeigh can sort the sessions into correct date order (see *Import a Session from Computer Disk* page 18).
4. Click on **OK** to save the session to disk.

Note: You can save all the sessions of the weight gain sheet together in one file by saving the sheet, see page 16.

A session can also be exported to disk immediately after being downloaded from the Indicator (see page 13).

Since the data is stored in an ASCII file, you can easily load it into one of the common spreadsheet programs for further processing. The fields in the file records are comma delimited and the sequence for each animal is:

TAG, WEIGHT, CONDITION CODE

Edit Data on the Weight Gain Sheet

You can manually edit the data in any of the live weight or condition code cells.

To edit the data in a live weight or condition code cell:

- make the cell active (bold outline) by clicking on it;
- press any non-numeric key to get into cell edit mode;
- navigate within the cell using the arrow keys;
- delete digits using the Del or Backspace key;
- enter new digits;
- save the edited entry by pressing Enter or clicking on another cell.

You can also add a blank animal record and then enter the data. See *Add an Animal* on page 20.

To delete an animal record, see page 21.

Manually Add a Session

To manually add a blank session, select **Sheet | Add Session.**

WinWeigh inserts a new session with today's date in the correct chronological position. Initially there is no animal data and the *Average*, *Total* and *Count* cells are all zero.

The new session has the same number of rows and same animal tag ID's as the other sessions (if any) on the weight gain sheet.

Any existing session later than the new session is shifted to the right and its session number is increased by one.

You can change the session date in the "Session Information" window (see page 32).

Delete a Session

This process deletes the current session from the weight gain sheet.

To delete a session, move the active cell to within the required session, then select **Sheet | Delete Session**.

WinWeigh deletes the session and re-numbers the sessions to the right of it.

Add an Animal

You can manually add another animal to the weight gain sheet.

Select **Sheet | Add Animal**.

WinWeigh inserts a row for the animal and opens the edit tag ID box with an automatically allocated tag (ID) number that does not conflict with the existing animals.

You can then manually enter the weights and condition codes for the new animal in the weight gain sheet.

You can change the tag number at any time by clicking with the right mouse button in the left hand column. This accesses the "Animal History" window (see page 33).

Delete an Animal

This deletes the animal from all sessions on the weight gain sheet, and from the animal history database.

To delete an animal, select the tag ID for the animal, then select **Sheet | Delete Animal**.

Move Part of a Sheet into Another Sheet.

This feature can be very useful if you want to analyse the performance of several sub-sets of a group of animals that were weighed at the same time.

To move part of the sheet into another sheet, move the mouse to the first tag ID of interest, hold down the left mouse button and select the group of tag ID's that you are interested in (you may wish to sort the whole sheet by tag number first, see page 30). In the example below, animals 100 and 213 have been selected for moving.

The screenshot shows the WinWeigh 2.1 interface with a spreadsheet of animal data. A context menu is open over rows 100 and 213, with options: Cut, Copy, Paste, Clear, Delete, and Clear Sheet. The spreadsheet has columns for tag ID, Daily Gain, Live Weight, Cond Code, and Daily Gain for different sessions.

Units	# 3	30/01/98	# 4	07/04/98	# 5	Over		
Da	Daily	Live	Daily	Cond	Live	Daily	Cond	Da
Ta	Gain	Weight	Gain	Code	Weight	Gain	Code	Ga
Clear Sheet	2	0.34	370.0	0.38	4.0	395.0	0.38	4.5
100	386.2	0.56	392.0	0.58	5.0	420.0	0.42	6.0
213	403.7	0.64	410.0	0.63	6.0	450.0	0.61	6.0
167	395.2	0.66	400.0	0.48	5.0	450.0	0.76	5.5
Average	387.8	0.55	393.0	0.52	5.0	428.8	0.54	5.5
Total	1551.3	2.21	1572.0	2.07	20.0	1715.0	2.17	22.0
Count	4	4	4	4	4	4	4	4

Select **Edit | Cut**.

Open a new sheet where you want the selected group of animals to appear.

Select Edit | Paste.

Copy Part of a Sheet into Another Sheet.

Similar to 'Moving Part of a Sheet into Another Sheet' above.

Select Edit | Copy.

Open a new sheet where you want the selected group of animals to appear.

Select Edit | Paste.

Edit Sheet Options

This allows you to control the operation of the weight gain sheet.

Select Sheet | Options.

Weight Gain Sheet Options																		
Animal Type <input checked="" type="radio"/> Beef <input type="radio"/> Sheep <input type="radio"/> Deer <input type="radio"/> Hog <input type="radio"/> Dairy	Weight Units <input type="radio"/> lb <input checked="" type="radio"/> kg	Weight Gain <input type="radio"/> Weight Gain <input type="radio"/> Weight Gain % <input checked="" type="radio"/> Daily Gain <input type="radio"/> Daily Gain % <input type="radio"/> Monthly Gain <input type="radio"/> Monthly Gain %	<input type="button" value="OK"/> <input type="button" value="Cancel"/> <input type="checkbox"/> Fast Print <input type="checkbox"/> Dec. Cond. Codes <input type="text" value="58"/> Carcass %															
Prediction Type <input checked="" type="radio"/> Predicted weight in <input type="text" value="30"/> days <input type="radio"/> Predicted days until <input type="text" value="460."/> kg		Prices for Weight Ranges <table border="0"> <tr> <td>\$</td> <td><input type="text"/></td> <td>Low</td> <td><input type="text"/></td> <td>kg</td> </tr> <tr> <td>\$</td> <td><input type="text"/></td> <td>Medium</td> <td><input type="text"/></td> <td>kg</td> </tr> <tr> <td>\$</td> <td><input type="text"/></td> <td>High</td> <td><input type="text"/></td> <td>kg</td> </tr> </table> <input type="checkbox"/> Display \$		\$	<input type="text"/>	Low	<input type="text"/>	kg	\$	<input type="text"/>	Medium	<input type="text"/>	kg	\$	<input type="text"/>	High	<input type="text"/>	kg
\$	<input type="text"/>	Low	<input type="text"/>	kg														
\$	<input type="text"/>	Medium	<input type="text"/>	kg														
\$	<input type="text"/>	High	<input type="text"/>	kg														
Predicted Live Weight Gain <input checked="" type="radio"/> Use last session weight gain <input type="radio"/> Specify weight gain <input type="text" value="1.5"/> kg/day																		

Weight Units

Select lb (pounds) or kg (kilograms). This does not change the numbers in the weight gain sheet, but changes the *Units* shown in the top left hand corner of the weight gain sheet.

Animal Type

The selected animal type is displayed on the weight gain sheet and printed on reports. In addition, WinWeigh uses the animal type to select the default directory for saving the weight gain sheet.

Tag Translation

TRU-TEST AG500 and 700 series Indicators only accept numeric characters, hence tags in these Indicators are always represented as numbers. However, some farmers using these Indicators incorporate letters and colours in their tag codes. WinWeigh can interpret 5 to 8 digit numeric codes and substitute letters or colours. The letters and colour names then appear in the Tag ID column and on printed reports.

You can select the translation to be applied to Indicator tag numbers as follows:

- None Tags remain as numbers.
- Alpha Letter codes translated.
- Colour Colour codes translated.
- Both Both letter and colour codes translated.

WinWeigh uses the following translation table.

Tag Translation Table

RED	1	A	1	J	10	S	19
ORANGE	2	B	2	K	11	T	20
YELLOW	3	C	3	L	12	U	21
GREEN	4	D	4	M	13	V	22
BLUE	5	E	5	N	14	W	23
PURPLE	6	F	6	O	15	X	24
WHITE	7	G	7	P	16	Y	25
GREY	8	H	8	Q	17	Z	26
PINK	9	I	9	R	18		

Each numeric code is treated as two 2-digit segments and one 4-digit segment for each tag (ID) number.

The 2-digit segments are used for colour and letter codes.

The 4-digit segment is for the numeric part of the tag.

The possible combinations are as follows:

Number only

Letter, letter, number

Colour, number

Colour, letter, number

Tag Translation Examples

<u>Indicator Tag</u>	<u>Translation Method</u>	<u>Result</u>
01021234	None	01021234
021234	Alpha	B1234
01021234	Alpha	AB1234
021234	Colour	ora-1234
01021234	Both	red-B1234

(1234 is the number part of the tag).

Note: A simple method of editing tag colours, letters and numbers is provided in the "Animal History" window (see page 33).

Weight Gain

This determines what appears in the weight gain columns of the weight gain sheet:

Weight Gain	Weight gain of the animal since the last session. $TWG = W2 - W1$
Weight Gain %	Percentage weight gain of the animal since the last session. $TWG\% = 100 \times TWG \div W1$
Daily Gain	Daily gain of the animal since the last session. $DWG = TWG \div \text{Days}$
Daily Gain %	Percentage daily gain of the animal since the last session. $DWG\% = 100 \times \left(1 + \frac{TWG\%}{100} \right)^{\frac{1}{\text{Days}}} - 100$
Monthly Gain	Monthly weight gain of the animal since the last session. $MWG = DWG \times 30.$
Monthly Gain %	Percentage monthly weight gain of the animal since the last session. $MWG\% = 100 \times \left(1 + \frac{DWG\%}{100} \right)^{30} - 100$

W1	=	Previous weight of the animal.
W2	=	Weight of the animal at this session.
Days	=	Number of days between the sessions.
TWG	=	Total weight gain.
TWG%	=	Total weight gain percentage.
DWG	=	Daily weight gain.
DWG%	=	Daily weight gain percentage.
MWG	=	Monthly weight gain.
MWG%	=	Monthly weight gain percentage.

The type of weight gain you select here is also reflected in the *Overall* column at the right hand end of a weight gain sheet.

Carcass Percentage

The percentage of final weight that gives the carcass weight of an animal. WinWeigh uses this percentage to display the carcass weight of each animal at the right hand end of the weight gain sheet, and to calculate the \$ value of the animals (see *Prices for Weight Ranges* below).

Prediction Type

This option allows you to either:

- i. predict the live or carcass weight in x number of days;
- or
- ii. predict the number of days the animal will take to reach a specified live or carcass weight.

Choose by clicking the mouse on the desired option.

Note that carcass rather than live weight predictions are made if the carcass percentage is not zero.

Predicted Live Weight Gain

- A. 'Use last session weight gain'. This option allows you to use the current growth rate (i.e. the weight gain achieved by the animal between the last two weighing sessions) when making live or carcass weight predictions.
- B. 'Specify weight gain'. This option allows you to specify the actual daily weight gain to use when making live or carcass weight predictions.

Option A. is more likely to be used when feed conditions will remain the same in the near future, so animals will be likely to continue to grow at the current rate. Option B. is more likely to be used when feed conditions will change in the near future (e.g. when supplementary feeding commences or extra grass will soon become available) and growth rates are likely to change.

Decimal Condition Codes

If you have recorded integer values for condition codes in a *TRU-TEST* Indicator, but wish these to be divided by ten when displayed in the *Condition Code* column in WinWeigh, click on the “Dec. Cond. Codes” box.

Prices for Weight Ranges

If you want to calculate the \$ value of your group of animals using a \$/kg or \$/lb carcass price, enter the information into the appropriate boxes.

Example:

If all the animals in the sheet are to be sold for \$1.08/kg carcass weight, then the "Weight Range" box will look like this.

The screenshot shows a dialog box titled "Prices for Weight Ranges". It has a section for "Carcass weight limits" with three rows: "Low", "Medium", and "High". Each row has a price input field on the left and a weight input field on the right. The "Low" price is \$1.08, and the "Medium" and "High" prices are empty. The "Low" weight field is empty, while the "Medium" and "High" weight fields are empty. At the bottom, there is a checked checkbox labeled "Display \$".

If however the animals in the sheet are sold for \$1.08/kg carcass below 220kg carcass, between 220kg carcass and 245kg carcass they are sold for \$1.25/kg and above 245kg carcass they are sold for \$1.31, then the information will be entered as shown below.

Note: In this example animals up to 219.99 kg carcass will be priced at \$1.08, whereas an animal weighing exactly 220kg will be priced at \$1.25/kg carcass.

The screenshot shows the same dialog box "Prices for Weight Ranges". The "Low" price is \$1.08, the "Medium" price is \$1.25, and the "High" price is \$1.31. The "Low" weight limit is 220 kg, and the "High" weight limit is 245 kg. The "Medium" weight limit field is empty. The "Display \$" checkbox is checked.

This information is then used to calculate a "\$ value" for each animal in the sheet and average and total \$ values for the group.

To display this information on the sheet:

1. Click on the **Display \$** box with the mouse (an X will appear in the box when it has been selected).
2. Click on **OK**.

The sheet will immediately change to display the \$ value as shown below.

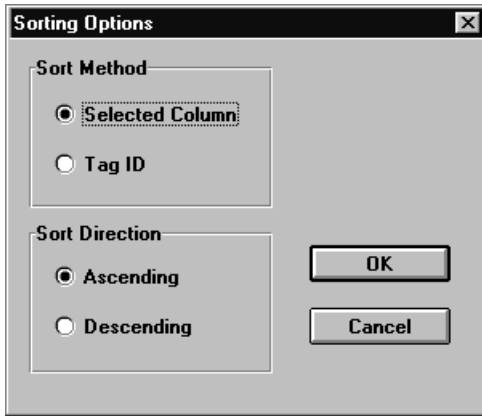
Units: kg Beef Tag ID	18/03/98	# 1	28/04/98	# 2	\$ Val in 45 days @1.50	Last Carcass Weight 58 %	CC Wt in 45 days @1.50
	Live Weight	\$ Value	Live Weight	\$ Value			
98	330.0	206.71	394.0	285.64	350.64	228.5	267.7
97	347.0	217.36	391.0	283.47	348.36	226.8	265.9
100	370.0	231.76	440.0	334.31	385.59	255.2	294.4
99	395.0	286.37	436.0	331.27	382.55	252.9	292.0
Average	360.5	235.55	415.3	308.67	366.78	240.9	280.0
Total	1442.0	942	1661.0	1235	1467	963.4	1120.0
Count	4	4	4	4	4	4	4

Sort the Weight Gain Sheet

WinWeigh can sort the data on a weight gain sheet in many different ways.

To sort the data

1. Select Sheet | Sort.



2. Click on the radio button for the required sort method.

The different methods are described below.

Selected Column

WinWeigh uses the values in the current column to sort the animals. i.e. if the cursor is in the *Live Weight* column of a particular session, animals are sorted in order of weight for that session. If the cursor is in the *Condition Code* column, animals are sorted in numeric order of the condition code, and so on.

Tag ID

WinWeigh sorts the animals into tag ID order.

Ascending

Animals are sorted in ascending order of the chosen parameter (smallest at the top).

Descending

Animals are sorted in descending order of the chosen parameter (smallest at the bottom).

3. To sort the weight gain sheet, click on **OK**.

Session Information Window

The "Session Information" window allows you to record various details of the session.

To access the window, click in the header for the session with the **right** mouse button, or select **Sheet | Edit Session**.

The screenshot shows a dialog box titled "Session Information". On the left, there is a group box "Condition Code Units" containing nine radio button options: "Cond. Code" (selected), "Lame", "Empty", "Lamb%", "Treatment", "Muscle Score", "Micron", "Fat Depth", and "Other - Text:". To the right of this group box are several input fields: "Date" (displaying "Wed, 18 Mar 1998" with up/down arrows), "File Number" (displaying "1"), and "Location" (empty). Below these is an "Other Condition Code Unit Text" field (empty). At the bottom right are "OK" and "Cancel" buttons. At the bottom left is a checkbox labeled "Hide Condition Code Column" which is checked.

Condition Code Units

Click the appropriate radio button to select the required title for the *Condition Code* column in the weight gain sheet.

If you select **Other - Text:**, you can enter your own title in the dialogue box.

Hide Condition Code Column

This allows you to hide the *Condition Code* column in this session, if it is not being used. Hiding or unhiding *Condition Code* columns can also be performed across the entire weight gain sheet (see page 33).

Date

Click on ↑ or ↓ to change the date for the session.

File Number

This is the number of the file where the session was stored in the Indicator (unless it has since been edited in WinWeigh).

Location

This allows you to record the location of the weighing session. Note that this information is only saved in the weight gain sheet. It does not get saved in a session file, nor does it get uploaded to an Indicator.

Hide/Unhide Condition Code

View | **Hide/Unhide Condition Code**

These settings allow the condition code to be hidden or displayed for every session in the current weight gain sheet. To hide/unhide the condition code on a session by session basis use the setting in the session information window (see page 32).

Animal History Database

The animal history database contains details of each animal.

The history for an individual animal can be printed or viewed as either a single animal history sheet or as part of the animal history table, by selecting Landscape rather than Portrait page orientation (see page 36), then selecting **F**ile | **P**rint or **P**rint **P**review.

To access the "Animal History" window, click on the tag ID number with the **right** mouse button or select **S**heet | **E**dit **A**nimal.

Tag ID	97			Edit Tag		
Birth Wt (kg)	20.	Birth Date	Wed, 01 Jan 1997	Breed	FwJ	Prev <<
Wean Wt (kg)	103.	Arrival Date	Sat, 01 Nov 1997	Sire ID	HarryIV	Next >>
		Source	M. Jones	Dam ID	9268	OK
Remark	Treated front left foot 24/12/97			Index	72/56	Cancel

You can select **Next >>** or **Prev <<** to display the history for the next or previous animal on the weight gain sheet.

Field Notes

Several fields of information about the animal can be entered. Most of the labels are self explanatory, but notes on some of the fields are given below.

Tag ID

You can change the tag ID number for the animal.

A special function is provided to create the tag ID number from letter, colour and numeric codes, see *Edit Tag* below.

Note: If the weight gain sheet is currently sorted by tag ID, you need to select the sort option in order to re-sort after changing any tag ID numbers.

Remark

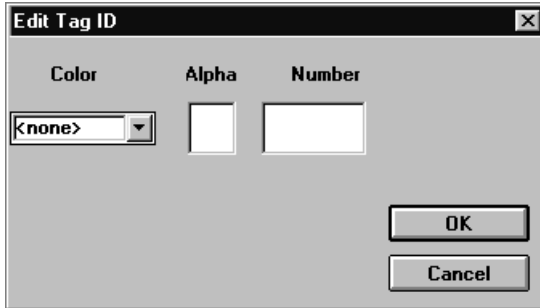
Enter any remark about the animal. You can type beyond the end of the displayed box and use ← and → keys to scroll the text.

Source

Where the animal originated.

Edit Tag

This accesses the routine for editing translated tag ID codes (see page 24). It allows you to select the required colour, letter, and number and WinWeigh then calculates the corresponding numeric tag ID code.



The screenshot shows a dialog box titled "Edit Tag ID". It has a standard Windows-style title bar with a close button (X) in the top right corner. The dialog is divided into three columns: "Color", "Alpha", and "Number". Under "Color", there is a dropdown menu currently displaying "<none>". Under "Alpha", there is an empty text input field. Under "Number", there is another empty text input field. At the bottom right of the dialog, there are two buttons: "OK" and "Cancel".

The tag ID translation table used by WinWeigh is given on page 24.

Printing

WinWeigh can print weight gain sheets and animal histories on many different types of printers.

Printer Setup

WinWeigh uses the standard Windows printer setup routine accessed from **File | Print Setup**.

Select Landscape rather than Portrait page orientation to print or preview the animal history table rather than a single animal history sheet.

For further information, refer to your Windows manual.

Print Preview

Before printing, you can preview reports on screen. You can also use this feature to just view the animal history table.

There are two options available from the **File | Print Preview** menu:

Preview Weight Gain Sheet

This displays a preview of the weight gain sheet as it would appear on the printed page. You can zoom in to obtain a more detailed view by clicking the left mouse button while the mouse pointer is a magnifier symbol.

To exit the preview screen, click on the **Close** button.

Preview Animal History

This displays a preview of the animal history as it would appear on the printed page. If you have selected Landscape rather than Portrait page orientation in **File | Print Setup**, you will see the animal history table rather than a single animal history sheet for the current animal.

To edit the animal history details, see page 33.

Print Reports

Before printing you must ensure that the correct printer and page orientation are set up, see *Printer Setup* above.

You can print part or all of the weight gain sheet, a single animal history sheet, or the animal history table.

To print the weight gain sheet

1. Select **File | Print | Print Weight Gain Sheet**.

You can choose to print the entire weight gain sheet or only some pages.

If the page orientation in *Printer Setup* is set to Portrait then only the selected session (that with the active cell in it) and the Calculation/Prediction Columns will be printed.

If the page orientation in *Printer Setup* is set to Landscape then the number of sessions printed is related to whether the condition code is shown.

The following table gives the number of sessions printed for the two possible condition code setups.

Note that if Session #1 is selected, the total number of sessions printed remains the same as shown in the table, but if the last session is selected only the last two sessions will be printed.

Number of Sessions Printed (A4 or Letter, Landscape)

Cond Code visible	Before selected session	After selected session	Total sessions printed
No	1	1	3
Yes	1	0	2

To print an individual animal history

1. Make sure your current position is on the appropriate spreadsheet row.
2. Ensure that Portrait page orientation is selected in **File | Print Setup**.
3. Select **File | Print | Print Animal History**.

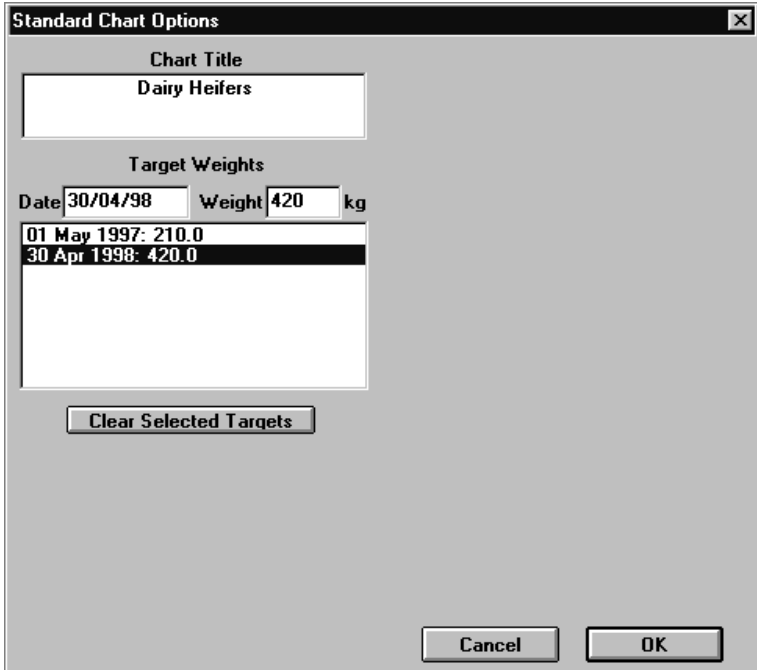
To print the animal history table

1. Ensure that Landscape page orientation is selected in **File | Print Setup**.
3. Select **File | Print | Print Animal History**.

Creating Charts

To create a chart (graph):

Select View | Chart.



The image shows a dialog box titled "Standard Chart Options". It contains the following elements:

- Chart Title:** A text box containing "Dairy Heifers".
- Target Weights:** A section with two input fields: "Date" containing "30/04/98" and "Weight" containing "420", followed by the unit "kg".
- Target List:** A list box containing two entries: "01 May 1997: 210.0" and "30 Apr 1998: 420.0". The second entry is highlighted.
- Clear Selected Targets:** A button located below the target list.
- Cancel and OK:** Two buttons at the bottom right of the dialog.

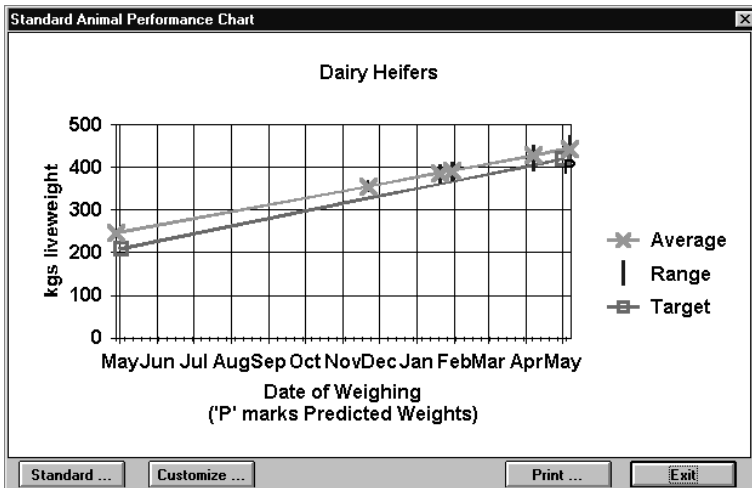
Enter a chart title if required.

Enter target weights if you are interested in charting actual weights against target weights (if not, leave this box blank).

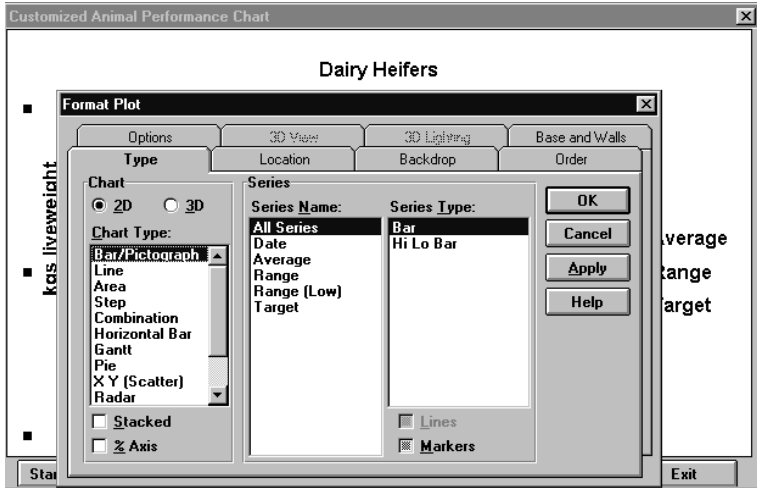
Click on **OK**.

This will immediately create a standard *TRU-TEST* chart, showing the average weight and range of weights for each weighing session in the sheet and the predicted weights. If you have also entered target weights as in the above example, the chart will also include these target weights as shown below.

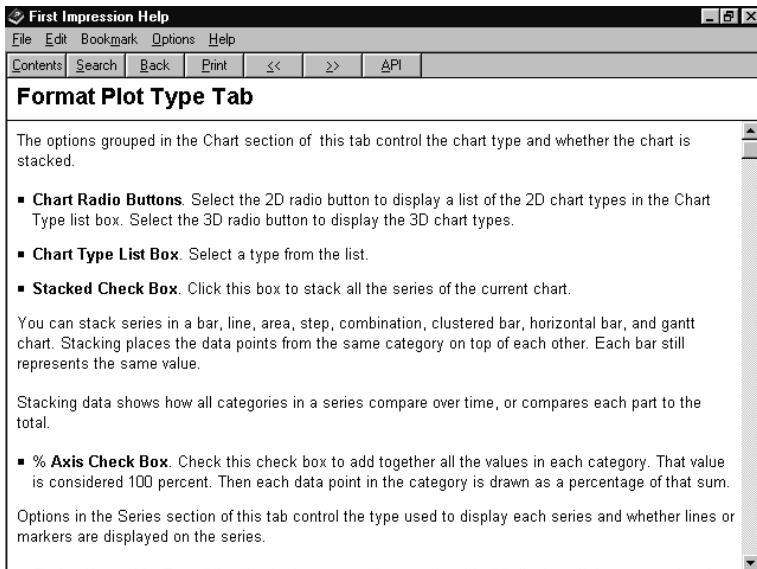
WARNING: Ensure that carcass percentage in Sheet | Options is set to zero before charting weights, otherwise the predicted weight shown on the chart will be the carcass weight while the other plotted weights will be live weights.



You can then use the **Customize ...** button to customize the chart to your own particular needs. This allows you to access an extensive range of graphic features. The multitude of different formatting options available for 'custom charts' are beyond the scope of this manual. The best way to learn about these features is simply to use the **Help** button available against each formatting option. Click on the **OK** button in Customized Chart Options, then click on **Format** and select a formatting option to access its **Help** button.



In this example, after selecting the **Help** button, the following useful information is displayed relating to the selected items (in this case, chart format types).



WinWeigh and Spreadsheets

You may wish to transfer information into other programs such as Microsoft Excel for Windows. Transferring information from WinWeigh into another Windows spreadsheet program allows users familiar with these programs to make powerful comparisons. For example, the average weaning weight for offspring of two different sires may be compared, a group of sheep can be ranked by micron measurement, or a herd of cows can be sorted by breed or breed index.

The simplest way to do this is:

1. Hold down the left mouse button and select the animals/sessions you are interested in.
2. Select **E**dit | **C**opy or press **Ctrl-C** to copy the information.
3. Open the Windows spreadsheet program.
4. Select **E**dit | **P**aste or press **Ctrl-V** to insert the information into the new spreadsheet program.

Note: Since extra hidden information required by WinWeigh will also be transferred, the 'pasted' data will appear nonsensical at first glance. However, careful study of the information will show that all the weight information and the animal history information is stored beside each tag number. It is then a matter of deleting the extraneous information and arranging the information you require into a clear table or database.

Reference Section

Toolbar

The toolbar contains buttons for commonly used functions.

Click on the button to access the function.



Start a new weight gain sheet.



Open an existing weight gain sheet.



Save the weight gain sheet in its original file.



Print the weight gain sheet.



Access version and copyright information.

Menu System

In the descriptions below, the *current* item is the one where the active spreadsheet cell is positioned, i.e. within a particular weight gain sheet, session or animal record.

File Menu

New ...

Create a new blank weight gain sheet. You select the type of animal.

Open ...

Load a weight gain sheet from disk. You select the folder/directory and file.

Close

Quit the current weight gain sheet. Any other weight gain sheets displayed in other windows are unaffected.

Save

Save the current weight gain sheet in its original folder/directory and file.

Save As ...

Save the current weight gain sheet in a new file. You select the folder/directory and enter the new file name.

Print

Print the current weight gain sheet or animal history sheet/table. You can select particular pages to print or access the printer setup routine.

Print Preview

Display a preview of the printed weight gain sheet or animal history sheet/table on screen. You can zoom in to see more detail.

Print Setup ...

This is the standard windows printer setup routine.

Selecting Landscape rather than Portrait page orientation allows you to print or preview the animal history table rather than a single animal history sheet.

Exit

Exit and close WinWeigh. If there is any unsaved data, you are given the option to save it before the program quits.

Edit Menu

Cut

Cut the data from the selected area.

Copy

Copy the data from the selected area.

Paste

Paste the last Cut or Copied data. Note: You can not Paste data from an external application into WinWeigh.

Clear

Remove the contents of the selected cells.

Delete

Remove the selected animals or sessions from the sheet.

Clear Sheet

Remove all data, animal tag/IDs, and sessions from the current sheet.

View Menu

Toolbar

Switch the toolbar on or off. If switched off, you cannot use the toolbar buttons, but there is more screen space available for the weight gain sheet.

Status Bar

Switch the status bar at the bottom of the screen on or off. If switched off, you cannot see the prompt messages, but there is more screen space available for the weight gain sheet.

Chart

Enter the chart setup, see page 39.

Hide/Unhide Cond Code ...

Hide/Unhide all the *Condition Code* columns in the weight gain sheet.

Sheet Menu

Options ...

Access the "Weight Gain Sheet Options" window, where you can change various settings that control the weight gain sheet.

Sort ...

Access the "Sorting Options" window, where you can select the sort method.

Edit Animal ...

Access the "Animal History" window.

Add Animal

Add an animal (row) to the weight gain sheet.

Delete Animal

Delete the current animal through all the sessions on the weight gain sheet, and from the animal history database.

Edit Session ...

Access the "Session Information" window, where you can view / edit details of the current weighing session.

Add Session

Add a blank session to the current weight gain sheet. The session is initially given today's date and inserted in the correct chronological position.

Delete Session

Delete the current session.

Import Session ...

Load a session that has been saved to disk as an ASCII file.

Export Session ...

Save the current session to disk as an ASCII file.

Indicator Menu

Reset Indicator

Establish communications with an Indicator. The Indicator must be connected to the computer and switched on. The Correct COM port must also be selected (see *Options* below).

Download ...

Transfer a file from the Indicator to the current weight gain sheet. The session is inserted at the correct chronological position.

You enter the number of the file required from the Indicator, or select from the displayed list.

Upload ...

Transfer a session to a file in the Indicator. You enter a session number (default is the current session) and Indicator file number.

Options ...

Select the computer COM port that the Indicator is connected to.

Window Menu

This is the standard Windows menu for arranging windows on screen.

Help Menu

Contents ...

Access a description of all items on the WinWeigh 2 menus.

About WinWeigh ...

Display information about WinWeigh including the version number.

Glossary of Terms

Term	Description
Alpha	Abbreviation for alphabetic. Letter characters rather than numbers.
ASCII	American Standard Code for Information Interchange. A common method of storing text files on computer systems.
Button	A graphic representation of a push button on screen that can be selected using the mouse.
Carcass percentage	The percentage of live weight that gives the carcass weight of an animal.
Cell	A space for one item of data on a weight gain sheet, at the intersection of a row and a column.
COM port	The connection on a computer for a serial communications cable.
Communications	The electronic transfer of data between two systems.
Digit	A single character number between 0 and 9.
Directory	Part of a system for organising files on computer disk. A directory can contain files and sub-directories.
Download	The process of transferring data from the Indicator to the PC.
Export	Save data to a special file type.
Field	In computer terminology, the location of a data item on screen or in a file.

Term	Description
File	A set of data stored on computer disk and given a name, or, the area in memory of an Indicator where a weighing session is saved.
File extension	A three character suffix to a file name that denotes the file type.
Floppy disk	A removable disk for storing computer data.
Folder	Same as a Directory.
Hard disk	An internal permanent disk for storing data in a computer.
Import	Load data from a special file type into the weight gain sheet.
Indicator	The control unit incorporating keypad and display for <i>TRU-TEST</i> weighing systems.
Integer	A whole number (not a fraction).
Numeric	Numbers only.
PC	Personal Computer.
Predicted days	The estimated number of days to reach a given weight.
Predicted weight	The estimated weight of an animal after a given number of days.
Radio buttons	A group of small circular buttons of which only one can be selected.
Session	The area of a WinWeigh weight gain sheet representing one weighing session.
Spreadsheet	A program for manipulating data in rows and columns on screen.

Term	Description
Tag translation	The conversion of a number code to a letter, colour and number code.
Toolbar	A collection of buttons at the top of the screen that give quick access to certain functions.
Upload	The process of transferring data from the PC to the Indicator.
Weight gain sheet	The working area of the screen in WinWeigh.
Window	The rectangular area on screen which contains the part of the program you are working on.

Appendix A - Authorised WinWeigh Agents

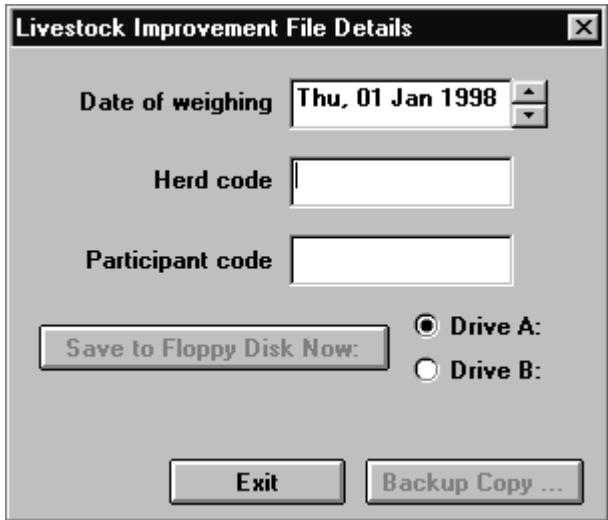
Country	Agent	Contact Number
Australia	TRU-TEST Pty Ltd	1 800 682 880
Canada	TRU-TEST Incorporated	1 800 874 8494
Czech Republic	TRU-TEST s.r.o. Brno	05 4721 5729
Denmark	GM TRU-TEST	45 45 800 922
Hungary	TRU-TEST Kft Budapest	023 414 100
Ireland	O'Donovan Cork	021 334066
Korea	Jang Baek Livestock Co. Seoul	2 578 9807
Malaysia	Lazuli Sendirian Berhad Selanger	3 775 8637
Mexico	TRU-TEST Incorporated	52 12 17 03 31
New Zealand	TRU-TEST Limited Auckland	0800 653 356
Poland	TRU-TEST Ltd Warsaw	022 645 1247
USA	TRU-TEST Incorporated	1 800 874 8494
United Kingdom	Ritchey Tagg Ltd North Yorkshire	01765 689541

Appendix B - Livestock Improvement Files

To assist New Zealand dairy farmers in the transfer of information for Animal Evaluations, a specialised Livestock Improvement feature is available using the Dairy option in the NZ version of WinWeigh.

The following procedure will enable you to save your weighing information onto a floppy disk in the correct format, to be sent to Livestock Improvement for Animal Evaluation calculations.

1. Commence download of the weighing session from the Indicator (see page 13) into a new sheet.
2. As soon as the information has been transferred into the weight gain sheet, the program will ask whether you also wish to create an Animal Evaluation file on a floppy disk to be sent to Livestock Improvement.



If you don't wish to send a copy of your weighing session to Livestock Improvement simply select **Exit**;

or

if you do wish to create a Livestock Improvement File, enter the date of weighing, herd code and participant code.

Livestock Improvement File Details [X]

Date of weighing

Herd code

Participant code

Drive A:
 Drive B:

a:111122.dat

You will note how the program automatically generates an animal evaluation filename from your herd-code. (This will ensure that your file sent to Livestock improvement has a name that is unique to your herd.)

Select **Save to Floppy Disk Now:**

You can now either Select **Exit** and return to your downloaded weights on the sheet;

or

select **Backup Copy ...** if you wish to create a reference copy of the file you have sent to Livestock Improvement for Animal Evaluation calculations.

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