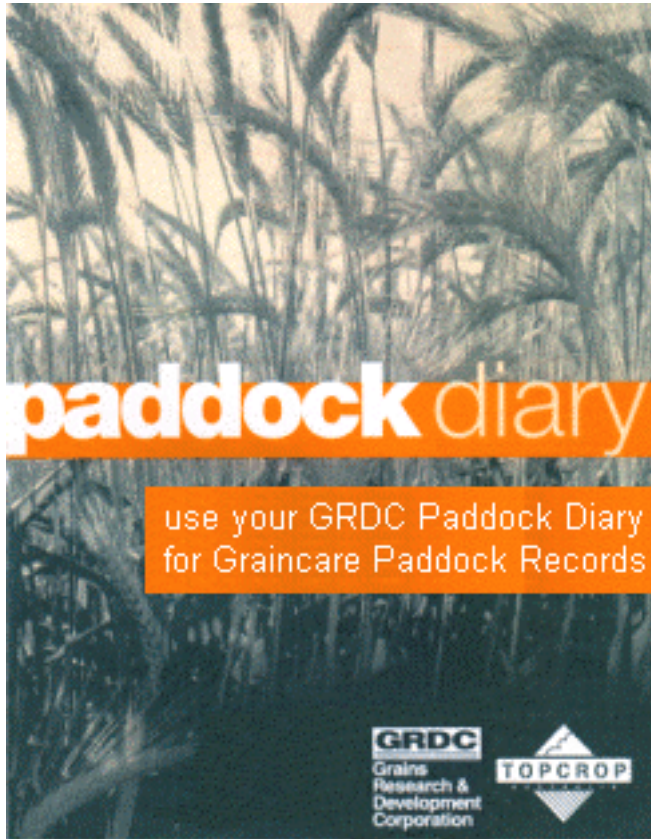


GRDC Paddock Diary



by
Fairport Technologies
for
GRDC
The Electronic Paddock Diary



GRDC Paddock Diary means..

1. A set of 2 programs which run on a Palm computer... Either a 3Com Palm M100, M105, III, V, VII or an equivalent platform... Handspring Visor, IBM workpad (and there are others) or the Windows CE Pocket PC hardware. (Compaq Ipaq, HP Jornada and others)... In this manual we refer to the hardware as a “Handheld Computer” or just a “Handheld”.
2. A PC program called GRDC.exe (GRDC Paddock Diary Utilities – For Installing Software onto your Handheld Computer and for Transferring and Processing Data) which does the following:
 - ? Installs the Handheld software (and any subsequent upgrades) onto the handheld computer
 - ? For Palm Users: Registers the programs into the HotSync Manager’s “Programs to be HotSync-ed List ” for each Palm User
 - ? For Palm Users: Performs the registration & unlocking process for each Palm user at a site... (there’s no limit to the number of users at a site – Each one must be a registered User)
 - ? Transfers data to the handheld (eg. The Crop Diary can store a whole season of Paddock Diary data for a number of farms.
 - ? Transfers the updated data from the handheld to the desktop... updates files, inserts costs and other relevant information that the handheld software doesn’t get involved in.

PLEASE NOTE:

The GRDC Paddock Diary software has been entirely derived from the FTI (1997) Pty Ltd (Fairport Technologies) Pocket GRDC Paddock Diary Desktop Utilities series of software.

In the case of the software for the Handheld computers, Fairport Technologies have created a specially “cut down” and “rebadged” version of the GRDC Paddock Diary Crop Diary and for the GRDC Paddock Dairy Rainfall program, Fairport Technologies have “rebadged” the GRDC Paddock Diary Rainfall program.

In the case of the desktop Data Transfer and Installation Utilities software, Fairport Technologies have adapted and cut down their P2P.EXE (GRDC Paddock Diary Utilities) software to handle the data from the two Paddock Diary handheld software programs. And to add more functionality to the Paddock Diary series of software Fairport Technologies have added functionality to the GRDC Desktop software in the following ways. They have:

- ? incorporated many of the configuration lists setup screens and functionality directly and without modification from the FTI (1997) Pty Ltd GRDC Paddock Diary Desktop Utilities 2000+ software.
- ? incorporated two reports (Paddock Activities Dairy reports by date and by paddock) directly and without modification from the GRDC Paddock Diary Desktop Utilities 2000+ software.

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Installation

- 1) Download the required version of GRDC Paddock Dairy from either the Fairport or GRDC website. There are two types of download. One for Palm type handheld computers and one for the Pocket PC type.
- 2) After downloading the installation program, locate it on your desktop computer using Windows Explorer. Double click on the GRDC_Palm.exe or the GRDC_CE.EXE file to commence installation.
- 3) Run the GRDC Utilities program to install the handheld software.

GRDC Paddock Diary Utilities

Run the new software using desktop icon... You will be asked to enter your name, trading name and general contact details.

Having done that, click "Save" and you will then see that you have 20 runtimes. Although the software is FREE, we still want to know who is using it so we can let you know via email if any new features have been added or to offer help, tips and general information.

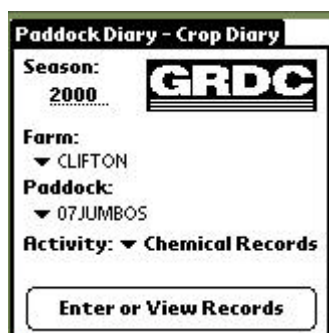
Registering the GRDC Paddock Diary Utilities program

Click on "Print Registration Form" and fax the form that prints out to the Fax number shown on it. We will return the form to you in due course or send you an email with your unlock number. When you receive the number simply click on the "Register" button to enter it.

Getting Started

You will need to create your lists of Farms, Paddocks, Rain gauges and cropping "inputs"...

On the main screen of the GRDC Paddock Diary Utilities program, click on the "Maintain Lists" tab. Using the pick list of List Types, choose "Farm" and proceed to add your list of farms using the "Add" button. Once done, fill in your paddock list, followed by your other lists ... until the system is set up to your satisfaction.



For Palm Users: Getting started

What do you need before you start?

You need to have a handheld computer!

You need to have the Palm Desktop Utilities or at least the HotSync system loaded on your computer. This software is supplied with the handheld computers and it is automatically run each time you press your HotSync button on your handheld computer's HotSync cradle.

Your handheld user name will need to be known to the HotSync manager. This will be automatic if you have already used your handheld computer with the HotSync system.

TIP: If you are new to the handheld computer you should begin by installing the software supplied with your handheld. On installation you will be prompted to use the HotSync cradle and to enter your "User Name". Please take some time to familiarise yourself with the basic workings of your handheld device and its supporting software.

The GRDC Paddock Diary Utilities program will operate without the HotSync software loaded on your computer but none of its software installation or data transfer functions will work.

Can you install the GRDC Paddock Diary software on your handheld without obtaining your license unlock number from Fairport Technologies?

Yes, you can install and run the Palm – GRDC Paddock Diary software, but without obtaining an unlocking code for your User Name, you will not be able to synchronise your data to and from your GRDC Desktop program. This means that the Crop Diary and the Rainfall programs will not have your GRDC Paddock Diary Desktop Utilities lists in them. For example, your farm names, rainfall station names, cropped areas, and consumables etc. will not be transferred unless you are a registered user.

Ready to get started?

Installing all GRDC Paddock Diary programs?

This process will do the following...

Each of the GRDC Paddock Diary programs will be registered into the HotSync Manager's list of programs to synchronise, and each of the programs will be installed on your handheld.

Be ready to read and respond to the messages on the screen. You will need to press the HotSync button to initialise the installation.

- 1) Select the "Installation" Tab
- 2) Click on the "Install All software" button... follow the prompts. You will need to be ready to start your HotSync process from your handheld. When that's done,
- 3) Click on the "Register All Software in HotSync" button. When that is completed we recommend you close down GRDC Paddock Diary Utilities then re-boot your computer to ensure your Hot Sync Manager program is operating. (If you don't reboot your computer the Data Transfer process may not work. An alternative to rebooting your computer is to do this... Click the Windows "Start" button, Select "Programs" then select "Palm Desktop", then select "HotSync Manager")

Transferring the GRDC Paddock Diary Desktop Utilities data to your handheld

You will need to put your handheld in its cradle, ready to press the HotSync button when prompted.

The HotSync manager will attempt to synchronise the data for all your installed programs... In order to control (override) the data you want to be synchronised, check the relevant radio button. To understand the Crop Dairy data options, read the Crop Diary section below.

So, the steps are:

- 1) Choose the program to synchronise.
- 2) Click on "Step2 : Process & Update Data".
- 3) When the GRDC Paddock Diary Utilities program is finished it preliminaries and ready to HotSync, it will display a pop-up message ... Click on the "OK" button, then press your HotSync button.

Once that's done, you're away... !!

If you focus on the bottom of the GRDC Paddock Diary Utilities screen, you will see the process status.

If you look at the screen of your handheld device, you will see the various files being transferred to and from the two computers.

Tip: Organising GRDC Paddock Diary programs on your handheld

This is optional.

On your handheld, you have a "Home" button which you click when you want to return to the home screen with the list of all the programs installed on the computer.

These programs can be organised into Categories...

To create a category called GRDC Paddock Diary do this:

Click on the Category pick-list in the top right hand corner of the Home screen.

Choose "Edit Category"

Now Click "New" ... and create a category called "GRDC Paddock Diary"... Click "OK"

Click "OK" again to return to the Home screen.

Now we have made the GRDC Paddock Diary category, we will assign the GRDC Paddock Diary programs to this new category.

Click on the Menu button (the button below the Home button). On the menu, choose "Category... "

You will see the list of all installed programs on the left and on the right you will see the categories they are assigned to. Locate the GRDC Paddock Diary series programs and assign them to the GRDC Paddock Diary category. Click "Done" when finished.

Back at the Home screen, to see your GRDC Paddock Diary category, either select it from the Category pick-list (in the top right corner)... or click on your Home button until the GRDC Paddock Diary category is displayed on the screen.

General Tip

To exit from any of the GRDC Paddock Diary programs simply click on the Home button on your handheld. There is no "Exit from program" facility within the GRDC Paddock Diary programs themselves. This is consistent with all other Palm programs.

For Windows CE (Pocket PC) Users: Getting started

What do you need before you start?

You need to have a handheld Pocket PC computer!

You will need to have installed the Active Sync software that came with your handheld computer. This program will transfer files between the handheld computer and your desktop computer.

You can choose for the Active Sync software to work automatically or you can manually override it. We will prompt you with messages when you run the GRDC Paddock Diary Utilities program.

Installing the GRDC Paddock Diary software on your Pocket PC

The handheld software is installed at the same time as your GRDC Paddock Diary Utilities program. Be sure to have your Pocket PC in its cradle at the time you install the downloaded program.

So once you have installed the software that came with your handheld computer, run the GRDC_CE.EXE program that you have downloaded.

Now you are ready to make a start. Be sure to fill in your lists in the desktop program. Your farms, paddock, crop types etc. These will all be needed before you start entering data. These lists are only maintained in the desktop software.

Transferring the GRDC Paddock Diary Desktop Utilities data to your handheld

1. Put your handheld in its cradle. The ActiveSync manager will synchronise the data for both the Crop Diary and Rainfall. The Sync process will start automatically if you have your Active Sync set on Automatic. If not choose to start the process manually.
2. When done Click on "Step2 : Process & Update Data".
3. When the GRDC Paddock Diary Utilities program is finished it processing of the newly transferred data, follow the on screen messages to transfer the refreshed data back to the handheld.

Once that's done, you're away... !!

Working with the handheld Paddock Diary programs

The programs on the Palm and CE handheld computer are almost identical.



Crop Diary

Limitations

The following things are not transferred to GRDC Paddock Diary and are resolved by the GRDC Paddock Diary Utilities program when you synchronise your data.

- ? Prices of your consumables
- ? Application Units of consumables
- ? Costs of machinery operations

New list items can not be added to your lists in GRDC Paddock Diary. All new items should be added in GRDC Paddock Diary Desktop Utilities prior to synchronising. Harvest Deliveries and Crop Monitoring records are not transferred from GRDC Paddock Diary Desktop Utilities to GRDC Paddock Diary, only records that have been added in GRDC Paddock Diary are transferred back to GRDC Paddock Diary Desktop Utilities. This means that old records that are deleted or edited in GRDC Paddock Diary will have no effect on your GRDC Paddock Diary Desktop Utilities data.

- ? Hay, Straw and Fodder production activities are not covered by the Harvesting option in GRDC Paddock Diary.
- ? When viewing all records for either a single paddock or for all paddocks, you will only see listed the first item for each event. For example, when listing all chemical applications for a season, you will only see the first chemical for each job... If you had a tank mix of chemicals, you will be able to see the tank mix details at the bottom of the list screen.

Buttons on Data Entry Forms

Clear
Use this button to clear all entries and selections you have made on the current page. It's like an «Undo». TIP: Any chemical or fertiliser you select which has no rate will be ignored by GRDC Paddock Diary Desktop

The Planting Details			
	Cultivar	Qty	R / T
1	▼ Barley/Sloop	80.....	<input checked="" type="checkbox"/> <input type="checkbox"/>
2	▼	0.....	<input type="checkbox"/> <input type="checkbox"/>
3	▼	0.....	<input type="checkbox"/> <input type="checkbox"/>
4	▼	0.....	<input type="checkbox"/> <input type="checkbox"/>

Rate & Total Check Boxes
Use these to indicate to GRDC Paddock Diary Desktop Utilities whether your Quantities are Rates or Totals

Machinery
To associate your machinery operation with a chemical or fertiliser application or planting activity, click on the Machinery

Fertiliser
Only available when entering a Planting.
Use this button to enter fertiliser applications that are associated with a planting event

Adding, Deleting and Navigating in Data Entry Screens

The screenshot shows a 'Planting Record' screen with the following details:

- Header:** Planting Record
- Buttons:** Add, Edit, navigation arrows (left, right, double left, double right), Del, OK
- Date:** 05/22/00
- Paddock:** 07JUMBOS
- Area:** Total: 22.60
- Area Planted:** 15.4
- Worked:** 15.4
- Crop:** Sloop/Barley (80.0)
- Fields:** Fertiliser, Machinery
- Info Icon:** Information and Help

Callout boxes provide the following instructions:

- Top Left:** Add a NEW activity record for the current activity / season / farm. Edit the current record.
- Top Right:** Move to First, Previous, Next and Last record for the current farm / season / activity.
- Middle Right:** Delete unwanted records with the «Del» button
- Right:** Information and Help
- Bottom Right:** Exit to Main screen
- Bottom Right (Lower):** Up / Down Arrows for moving to the Previous or Next Page
- Bottom Left:** View ALL records for the current farm / season / activity.

Crop Diary Tips

Important: When you are entering a Planting record and you are planting more than one crop/variety in the paddock, ensure that the Main Crop is entered first. GRDC Paddock Diary Desktop Utilities will assume that the main crop is the first crop/variety that you selected.

Only one season's data is transferred to GRDC Paddock Diary from GRDC Paddock Diary Desktop Utilities.

Your GRDC Paddock Diary Desktop Utilities configuration or list data (consumables, crops, machinery etc) are transferred to GRDC Paddock Diary but the associated costs or the units (eg. Tonnes, Kgs. Litres) are not.

When you enter seed, fertilisers and chemicals, use the [R] [T] [%] check boxes to let GRDC Paddock Diary Desktop Utilities know that the quantity you have entered is a Rate/Ha or a Total Amount or, in the case of Chemicals, a Percentage of the Water Rate used.

If you are entering records other than Planting records in a Paddock which has more than one cropped area for the season (eg. A split paddock or a Summer/Winter cropping scenario) ... ensure you select the appropriate Crop/Variety from the «Crop/Var» picklist.

Q. What happens when you add a record (eg. A fertiliser record) and you don't enter a rate or total quantity? ...

A. GRDC Paddock Diary Desktop Utilities will ignore the entry

Q. When I display a list of entries I see some columns with three question Marks "???" in them... What does that mean?

A. This indicates that a record has been added but with no details ... or at least no details for the first fertiliser, chemical or crop. GRDC Paddock Diary Desktop Utilities will ignore any blank items when the data is transferred from GRDC Paddock Diary.


Q. What does the Star on an activity data entry screen mean?

A. This indicates that a record has been added since your last HotSync session.

Q. Can I edit data on the handheld computer?

A. Yes, Click on the "Edit" or "Edt" Button on the data entry screen of the activity you have chosen... All records for the season you are working in are transferred back to the desktop and will fully replace the whole season each time you perform a Data Transfer.

Reviewing lists of items

 When you click on this button in any of the data entry screens, you will see the list of events for the current Farm / Paddock / Season.

Fertiliser Records		
2000	Show All Records	Back
09 BARN	05/14/00	Mallee Mi

If you want to see the records for all your other paddocks for the current Farm / Season click on the "Show All Records" button.

Then to return to the current Paddock, click on the "Filter by Paddock" button.

Fertiliser Records		
2000	Filter by Paddock	Back
09 BARN	05/14/00	Mallee Mi
10 TAMARI	05/18/00	DAP
11 TAMARI	05/02/00	Urea
12 GWINGA	06/14/00	Mallee Mi
14 RUN SO	05/20/00	Urea

Please Note: When you are reviewing the lists of items, GRDC Paddock Diary only lists the first item for an event. Eg. If you sprayed a paddock with a

tank mix of 3 chemicals, you will only see the first chemical in that list. However, you will see the other chemicals on the screen below the list.

How to...



Enter a planting record

On the main screen select the **Farm** and **Paddock** and the **Activity** "Planting Records"
Now click on "Enter Records" to go to the Data Entry Screen.

If you have already recorded a planting for the selected Farm/Paddock/Season you will see that record (or at least one of them if there are more than one). To create a new record click on the "Add" button.

If this is the first planting Crop Diary will automatically Add the new record for you... You will see **<New Record>** on the screen. This indicates that a new record has just been created for you. You will see that today's date has been entered for you, the paddock name is already there, the paddock's arable area is displayed and is used as the default areas for both the cropped area and the worked area.

Make any necessary changes to the areas shown.

When you're ready to enter the crop type and variety and planting rate information, click on the small Down Arrow button.

Now you can select your crop type and variety from the pick list. You can also enter the planting rate. Either use the "Graffiti" pad or click on the small dot in the corner of the numeric graffiti pad to show the numeric keyboard.

Notice that you can enter in more than one crop type... This is to cater for under-sown pastures and in-fill crops. Remember, the first crop/variety that you select will be the Main Crop in GRDC Paddock Diary Desktop Utilities. That is, the crop against which all costs are allocated and the only crop that you can record harvest data against.

If you want to enter the seed used in terms of the total quantity rather than a rate, tick the box under "T"

To enter your planting conditions (Soil Moisture, Row Spacing, Planting Depth), click on the "Conditions" button. When done, click on the Tick Button to return.

To enter the Fertiliser and Machinery records associated with this planting, return to the first data entry screen and click on the appropriate button... "Fertiliser" or "Machinery & Labour"

Enter a Chemical Applications

On the main screen select the **Farm** and **Paddock** and the **Activity** “Chemical Records”

Now click on “Enter Records” to go to the Data Entry Screen.

If you have already recorded chemical records for the selected Farm/Paddock/Season and you chose to transfer the whole season’s data to your handheld, you will see that record (or at least one of them if there are more than one).

If this is the first chemical record, the program will automatically add a new record for you... otherwise, to add a new record, click on “Add”. You will see that today’s date has been entered for you, the paddock name is already there, the paddock’s arable area is displayed and if you have one or more crops growing in this paddock, the first crop found is displayed and its cropped area is used as the default area for the sprayed area.

Make any necessary changes to the area shown.

When you’re ready to enter the chemical tank mix, click on the small Down Arrow button.

Now you can select your chemicals from the pick lists. You can also enter the rate or total amount applied or the percentage of the water rate used. Either use the “Graffiti” pad or click on the small dot in the corner of the numeric graffiti pad to show the numeric keyboard.

If you make a mistake and want to clear all entries on the chemical tank mix screen, click on the “Clear” button.

If you choose a chemical in error, leaving the rate at zero will have the same effect as deleting the chemical when you transfer the data back to GRDC Paddock Diary Desktop Utilities. Chemicals with no rate against them will be ignored.

To enter Spray Conditions and Spray Targets and Chemical Batch Numbers , click on the appropriate buttons.

You can enter the machinery details from the first data entry screen.

Enter a Fertiliser Records

By the time you have read this far, you will have mastered the art of data entry. Data entry in the Crop Diary is very consistent and very simple.

Rainfall

The rainfall program can store daily rainfall data for all your rainfall stations. Rainfall data for all stations for the current year is transferred from GRDC Paddock Diary Desktop Utilities to the handheld.

You can add more data as your rainfall events occur.

Whenever you want, simply Sync your data back to GRDC Paddock Diary Desktop Utilities using the GRDC Paddock Diary Utilities program.

Entering Data

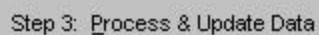
Start the Rainfall program, select the appropriate rainfall station from the list and click on “Add / Check Rainfall Data”

The next screen is not the data entry screen but a review screen. From this screen you can:

- ? View all records for the current Station / year
- ? Add a new rainfall record (use the “Add New” button)
- ? Edit the currently displayed record (use the “Edit Current” button)
- ? Delete the currently displayed record (use the “Delete” Button)
- ? Return to the Rainfall Station Selection (or Main) screen (use the “Back” button)

To ensure your rainfall data is transferred to and from GRDC Paddock Diary Desktop Utilities, click the Rainfall check box on the GRDC Paddock Diary Utilities screen. Then simply click on the

“Process and Update Data” button



Step 3: Process & Update Data