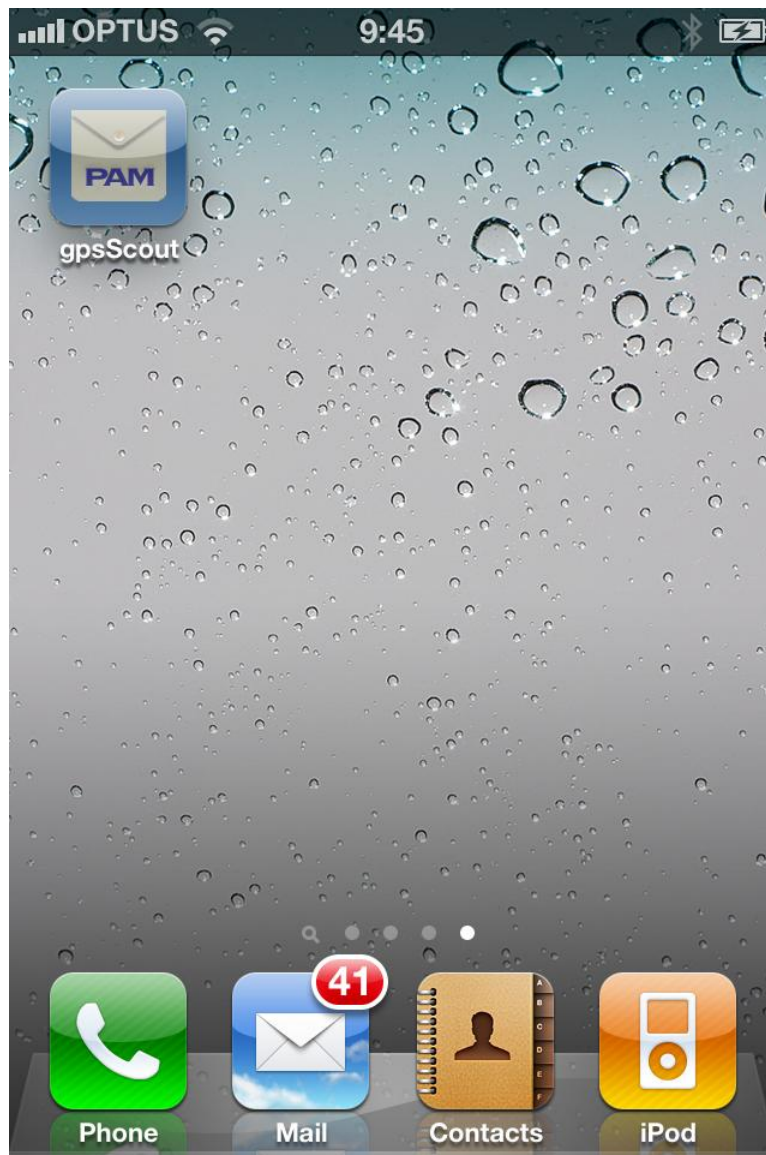


PocketPAM - gpsScout on iPhone or iPad



By

Fairport Farm Software
FTI (1997) Pty Ltd

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PocketPAM – gpsScout

This software is designed to be your ‘in the field’ data collection system for your PAM Crop Monitoring records. The software will not function without first transferring data from your PAM system and is not designed to be used by anyone other than those who are license users of Fairport’s PAM software.

Data synchronization between PAM and Pocket PAM - gpsScout

- Data entered in the handheld device version of the software is synchronized back to the PAM database via a “To PAM” button on the handheld device
- Data entered in the PAM software is synchronized back to the gpsScout database via a “From PAM” button on the handheld device

by one of two methods:

- Via a wireless network connection using a Windows Service
- Via the internet – provided there is a Web Service installed on the PAM server

Launching gpsScout on your iPhone or iPad

The Pocket PAM – gpsScout button on your iPhone screen looks like this ...



Tap on it once to launch gpsScout



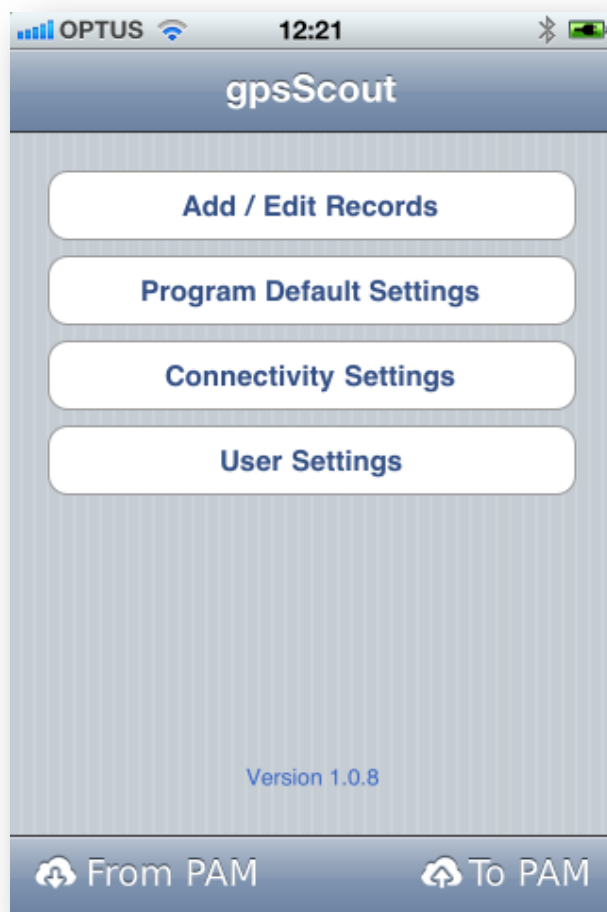
Running gpsScout the first time...

When you start up gpsScout for the first time, the database on your mobile device needs to be built. This will take up to a minute, but once done, you'll not see this happening again... unless you install an updated version of gpsScout, released by Fairport at some future date.

The Home Screen

Before you can do anything at all in gpsScout, you must set up the required settings to enable you to transfer the PAM data to and from your device.

- Your user name and password - by tapping on the "User Settings" button
- Data Synchronization Settings – by tapping on the "Connectivity Settings" button



Once you have those settings configured, you are then ready to configure the Program Default Settings.

The most important of those settings is the Business Unit, especially if you are running either PAM Enterprise or PAM Mid Tier Enterprise.

Let's now look at these settings screens...

The "From PAM" button is used to transfer your lists (Paddocks, Cropped Areas, Pests, Weeds and other lists) from PAM
 The "To PAM" button is used to send your gpsScout data back to PAM



OPTUS 11:53

gpsScout User Settings

User credentials (for syncing with PAM)

User name
ben

Password
●●●●●●●●

Network domain name
MyDomain

Setting Up gpsScout ... User Settings

User Settings Screen.

If you are running PAM Enterprise or PAM Mid-Tier Enterprise, to enable Pocket PAM to send and retrieve PAM data it must use legitimate user credentials. (User Name, Password) and your network domain name

gpsScout can only hold data for one Business Unit at a time. Therefore you must choose the business unit you are currently working with.

Tap on the back button (“gpsScout”) when done

OPTUS 12:21

gpsScout Connectivity

Local Network OFF

IP Address

Port 0

Test

Internet ON

WSDL Address
http://dev.fairport.com.au/gpsSc...

Test

Tap on "Test" - Result will be displayed here

Setting Up gpsScout ... Connectivity Settings

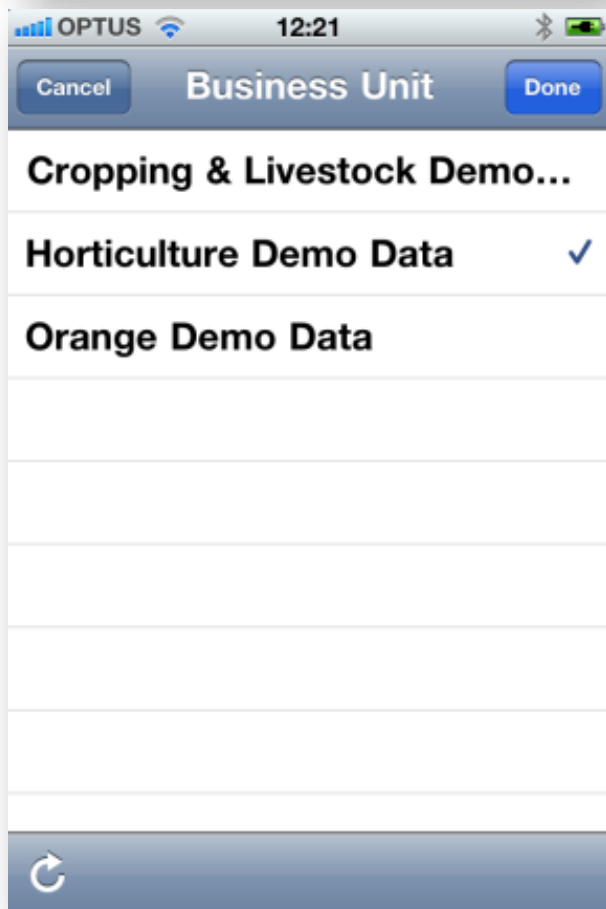
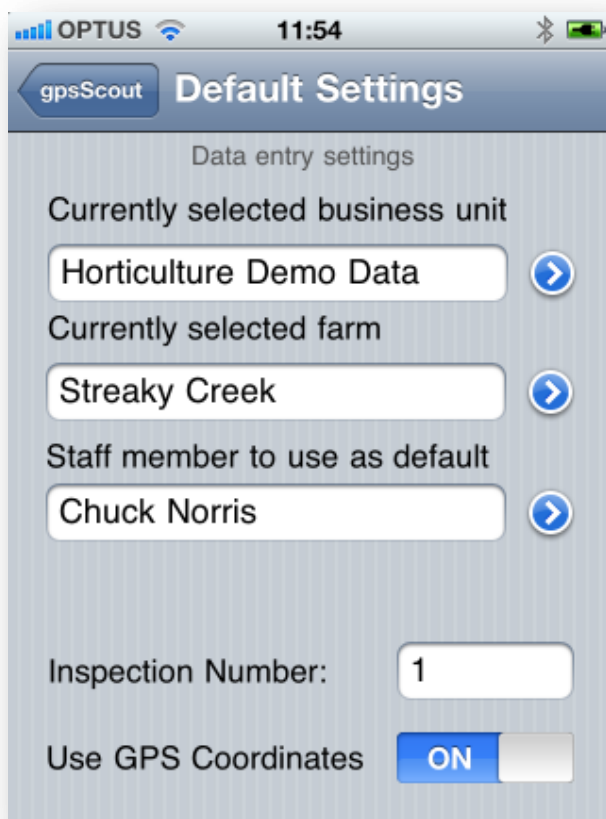
When synchronizing data with PAM, you will either be using a WiFi connection to PAM or an Internet connection to PAM or even both. The gpsScout software sends data to a “Listener” on your PAM computer or server.

For example, you can use the WiFi connection if you are within range of your WiFi network, but when you are out of range, you can synchronize via the Internet using a Web Service.

The “Listener” installation notes can be found in a separate document.

Tap on the back button (“gpsScout”) when done





Setting Up gpsScout ... Program Default Settings

Before you use the “From PAM” button on the home screen to fetch your lists of paddocks, cropped areas, pests and diseases etc, you need to choose your Business Unit and Farm (at least) on this screen.

Step 1 – Choose your Business Unit



tap on the button to choose the business unit.

The Business Unit list (those business units that have been assigned to you) will be displayed...



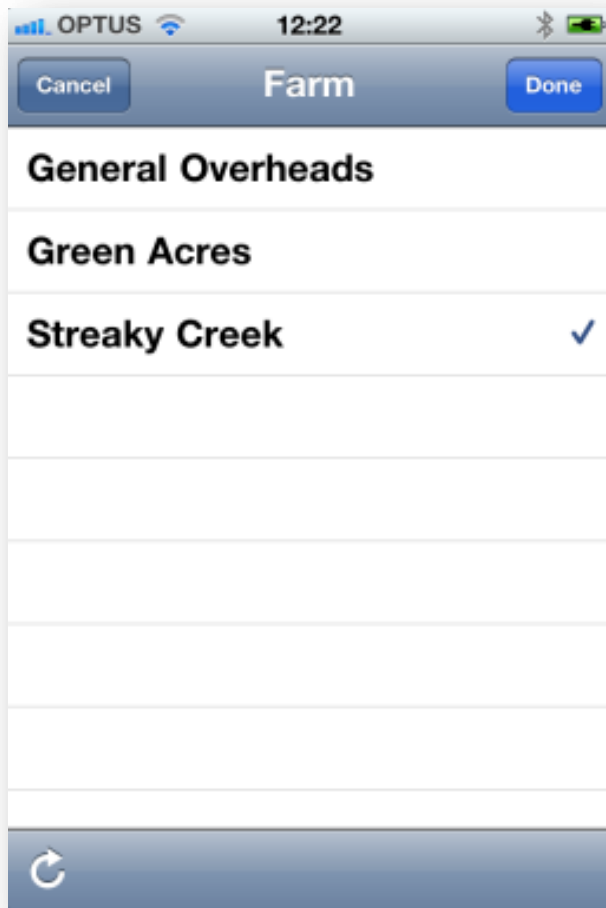
PLEASE NOTE: At first, the list of business units will be empty.

You will need to tap on the “Refresh” button in the bottom toolbar.

Select the business unit that you will working with in gpsScout by tapping on it in the list. You will see a tick appear to indicate the business unit has been selected...

... then tap on the “Done” button (top toolbar) when you are ready.






Step 2 - Choose your Farm

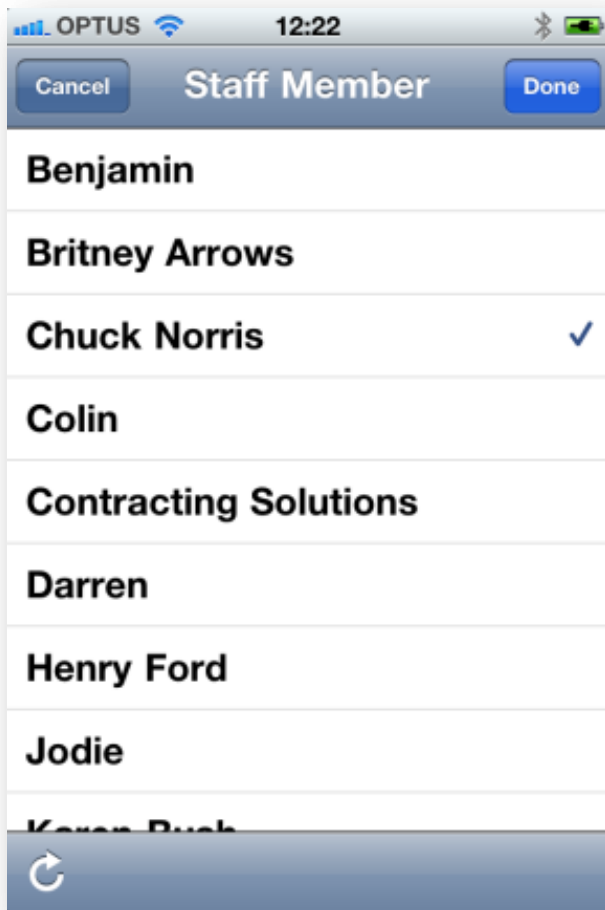
The list of farms for your currently selected business unit will be displayed.

Choose the farm on which you will be working.

 If the list is empty (which would be the case if you have chosen a new business unit), tap “Refresh” button.

Tap the “Done” button when finished.





Step 3 – Choose your Staff Member

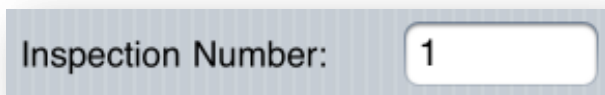


tap on the button to choose the staff member's name

The name you choose on this screen will become the "Scout" in all your gpsScout records.



The "Refresh" buttons can be used to check on the PAM database for newly added items. Depending on your choice of synchronization method, you would need to be within range for these buttons to work.



Step 4 - Inspection Number

Using the inspection number is optional, however it has a purpose.

If you are also using the GPS option: "Use GPS

Coordinates", the "Inspection Number" value is used to create unique map layers in your PAM Mapping system.

For example, if you conduct 4 crop scouting missions in a growing season, you would be advised to use the inspection number to 'tag' each of those missions. In a vineyard you may conduct Inspection Number 1 at bud burst time. This process may take several days and involve visiting multiple observation sites in each block.

To keep all those observation sites on a single map layer in PAM, you would leave the Inspection Number set at 1 for that entire mission.

Step 5 - Use GPS Coordinates

If you want to record the geo-location of your observation sites, set this option On.

Now tap on the back button ("gpsScout") to return to the home screen



Now we're set up and ready to go

That's now got you ready to get the PAM data ready for your first gpsScout, scouting mission!

... So back on the home screen, tap on the "From PAM" button.



You will notice several messages appear on a "Busy working" indicator. The system is just letting you know that things are happening.

When that process is finished, you are ready to collect data.

Tap on the "Add/Edit Records" button ... to begin our first gpsScout record.

The Location Selection Screen



Using the 'arrow' button, select your paddock or block.

Having chosen your paddock, the software will filter the Crop/Variety list to ensure that only the crops growing in your chosen paddock/block are available.

Choose the appropriate crop.

If you are using the Pest & Disease Management Zones option in PAM, you will find your Management Zones for the chosen paddock/block will be available on the Management Zones list.

Choose the appropriate zone – if applicable in your case

You may want to record the Crop Growth Stage along with the crop observation records.

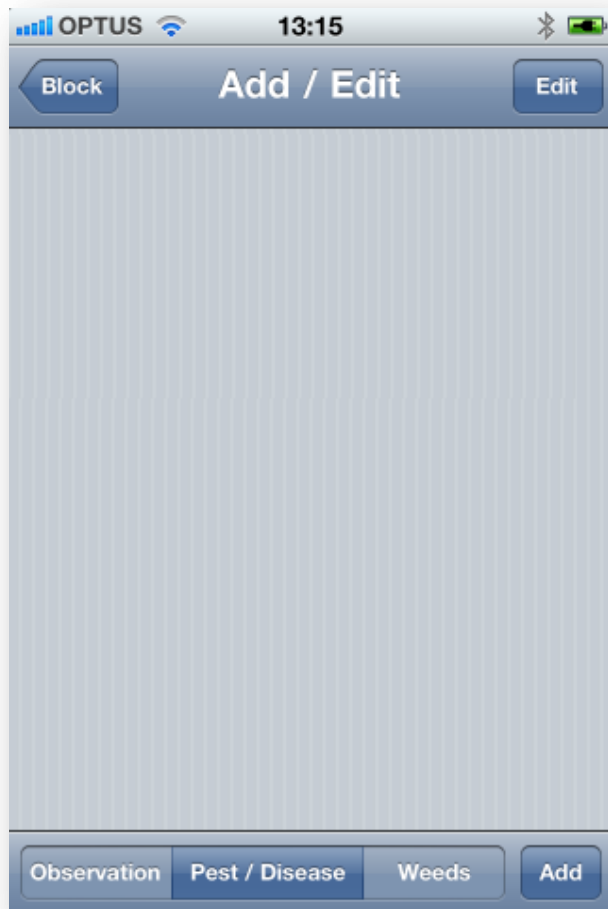
Based on the chosen crop, the Crop Growth Stage list will be filtered to include only those growth stages applicable to your chosen crop.

Choose the appropriate crop growth stage – if you wish.

Now tap on "Next" ... to take you to the "Add/Edit" screen



The Add / Edit Screen



At the outset, the add/Edit screen will be empty ... as shown here.

When you have added records for your selected Farm/Paddock (or Block)/Cropped Area, those records will be displayed on this screen.

You will be able to scroll back through all the records added for the selected Farm/Paddock (or Block)/Cropped Area since your last

When Adding Records , you can choose the observation type from the 3 button on the bottom toolbar.

At left you can see that I have the "Pest/Disease" button selected.

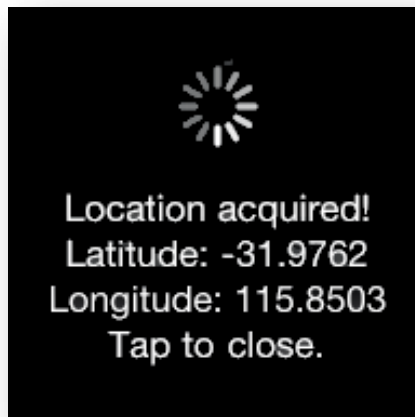
Then tap the "Add" button... which takes you to the "New Data" screen.



The New Data screen

On this screen ...

1. If you are using GPS Coordinates and you are recording the first record for the site, you should tap the “Fetch GPS coordinates for this site” button. Tapping this button will display this message...



... If you are not using GPS Coordinates, the label on the button is: “New site – Generate a new Site ID”

The Site ID is a number in the format YYMMDD001 – YYMMDD999.... Therefore on any given day you can visit up to 999 sites and the data for each site will be grouped by the Site ID.

2. The data entered on this screen relates to the problem or observation that you select using the picker wheel at the bottom of the screen. We deliberately placed the wheel at the bottom of the screen so the screen does not need to scroll up when the keyboard is displayed to enter the:
 - Reading/Count
 - Number of Observations
 - Comment

Pest Stages

When you are entering Pests, you can opt to record the “Pest Stage” In the screen shot above, the Left Side picker-wheel is the Pests and Diseases list and the Right Side picker wheel is the list of Pest Stages that you set up in PAM.

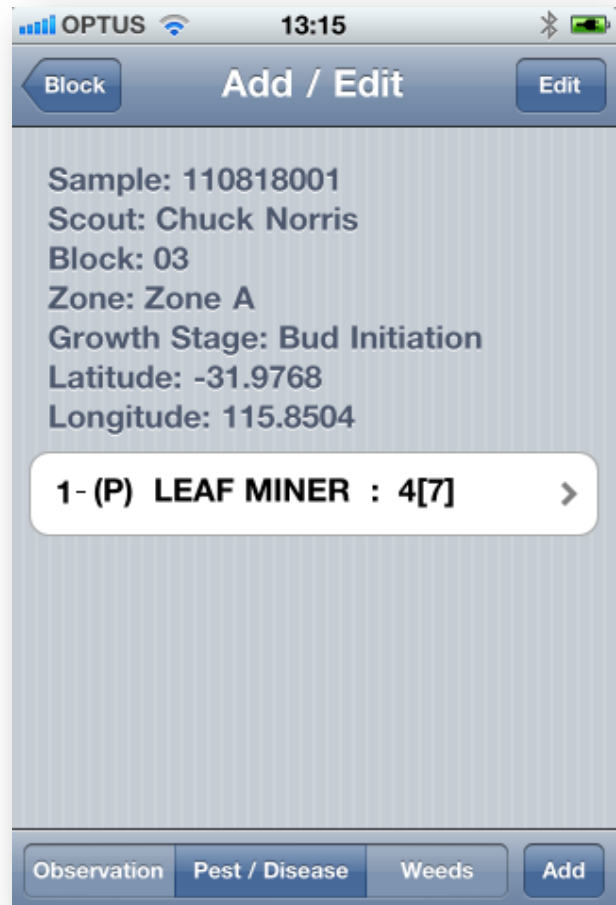




Saving a Record

Having entered the observation record...

...Tap on the "Save" button ... and the program will take you back to the "Add/Edit" screen...



The record are summarized on the Add/Edit screen as shown here...

1- (P) LEAF MINER : 4[7]

To explain this summarization...

Inspection Number – (Observation Type) Observed Item : Number of Observations [Reading/Count]

You can now tap "Add" to add a new Pest/Disease item or change to a Crop monitoring Observation, or a Weed count record.



In other words, you can Add as many records for the currently selected paddock or block+ cropped area combination by simply tapping the “Add” button.

If you should need to Edit any of the records you have captured, simply tap on the record...

1- (P) LEAF MINER : 4[7] >

OPTUS 16:38

Add / Edit
Edit Data
Save

Reading/Count:

Number of Observations:

Comment:

Great burst of buds

Sample: 110818002

| | |
|-------------|-------------|
| FRUIT FLY | Medium |
| GRASSHOPPER | Small |
| LEAF MINER | Very Small |
| MEALY BUGS | White Eg... |
| SCALE | |

.. to go to the “View Data” screen... where you can make any changes you require. When done, tap “Save” to save your changes, or just tap the back button (“Add/Edit”) to return to the previous screen.





Reviewing records entered earlier

If you need to review records previously entered for a different Paddock/Block/Crop combination to the one you have currently selected:

- Set up the location fields as if you were going to be adding more records,
- then tap “Next” and you will see all the records that you entered for that chosen Paddock/Block/Crop combination since the last time you sent data to PAM.

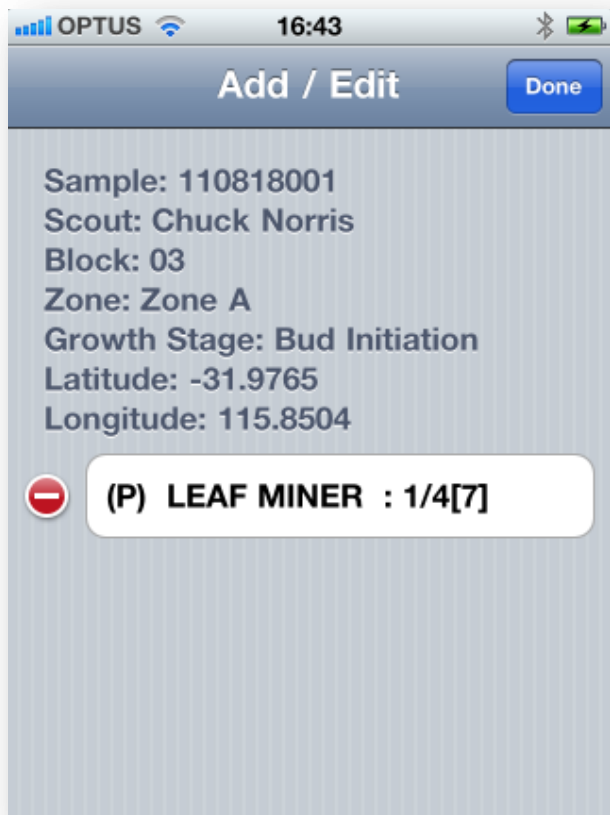


Deleting records

Back on the Add/Edit screen, you can remove unwanted records by tapping on the “Edit” button on the top toolbar

By tapping the “Edit” button your screen will display small delete icons to the left of all observation records.

Tapping on the delete icon will reveal a “Delete” button. As shown here...



... and tapping on the Delete button will remove the record.

If the record was the last record for the current sample Site, the site itself will be removed.



Sending your gpsScout data to PAM

When you are ready to send your gpsScout data back to PAM, tap on the “To PAM” Button on the gpsScout home screen.

By doing that, all data recorded since your last “To PAM” will be transferred. All those observation records will be removed from the device, ready for a fresh start.

