

MONITORING PROTOCOL:Rapid flotation sampling of dung beetles

WHAT TO DO:

Step 1 Find a dung pat that is 1 - 2 days old

Step 2 Put it in a bucket with water and stir

Step 3 Skim off the floating insects, collect them, mail them

1

Find a dung pat







X Not too old

1 or 2 days old

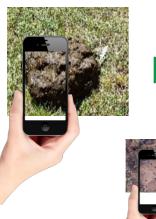


Just right!

2

Take a photo of the dung pat and soil castings, and put them in a bucket of water

Creep up on the beetles quietly.



Take photos of dung pat and any soil castings or holes



Put dung and topsoil into a bucket



Add water and stir!



Beetles float to the top 3 (

Collect beetles



Stir Skim Stir Skim...

Skim off all







Preserve the beetles



Half fill with 'pet safe' antifreeze OR regular car antifreeze.

Keep ALL insects, not just dung beetles —we are interested in predator numbers too!



Report what you found and mail the sample.

Use the MyPestGuide ReporterTM app (see following page).
This will automatically notify dung beetle experts to expect your sample in the mail and they will tell

you what beetles you caught.



Every report you make contributes to a national database of dung beetle distributions on different soil types and climate zones.



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How to submit a report using the MyPestGuide™ Reporter app





Open the App. Select the + symbol, then:

- a. Check GPS location is turned on (automatic).
- b. Select 'Dung beetle survey' from the drop-down list.
- c. Press the top left camera icon. Select 'Take Photo', and then take photos as described on p.1.

You can also 'Attach Photo' if you have already used your phone camera to take the pictures earlier.

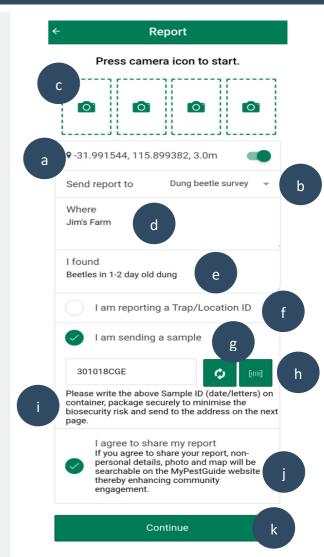
If you need more than 4 photos...make 2 reports!

- d. In box labelled 'Where', write farm or location name
- e. In box labelled 'I found', write "Beetles in 1-2 day old dung"
- f. Skip 'I am reporting a Trap/Location ID'
- g. Photos will normally be sufficient (and you can skip g-i), but if you have found something unusual and want to send a sample, **select** 'I am sending a sample'
- h. When it appears, **press** the
- d. A sample code number will automatically appear in the box. If you write this number on the sample you send, we will be able to tell where the sample came from.
- j. Select 'I agree to share my report'.
- k. Press 'Continue'. Check your 'State', 'Email' and 'Mobile' details are correct then **press 'Send'**.

Ready to send a sample?

- Put the dung beetle in a small plastic jar
- Write the automatically generated sample code number on the jar
- Put the jar in the freezer for 48hrs
- Air Mail it to the address at the right





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