



GSL

Protocol
**For the Movement of Green Snail
(*Helix aperta*) Host Material to
Other States and Territories of
Australia**

Version 4.2 – June 2011

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3.2	Aug 2006	2.7 Fruit and Vegetables
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3.4	Oct 2008	3.0 Victoria
3.5	June 2009	3.0 Victoria
4.0	Feb 2010	Complete amendment to baiting requirements. Changes to approved baits for Victoria and New South Wales
4.1	Apr 2010	6.0 Baiting - Changes to New South Wales
4.2	June 2011	6.0 Baiting & Cover spray – Changes to Victoria

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1. PURPOSE

The purpose of this protocol is to describe-

- (a) the procedures to be undertaken; and
- (b) the responsibilities and practices of personnel;

That applies to the Movement of Green Snail (*Helix aperta*) Host Material to Other States and Territories of Australia

2. SCOPE

This procedure covers Green Snail property accreditation issued to a Business operating in Western Australia.

Property accreditation under this Protocol may not fulfil all quarantine entry conditions for all produce to all intrastate and interstate markets.

Some intrastate and interstate markets may require additional quarantine certification requirements.

It is the responsibility of the Business consigning the produce to ensure compliance with all applicable quarantine requirements.

Information on intrastate and interstate quarantine requirements can be obtained from Quarantine WA

3. REFERENCES

Nil

4. DEFINITIONS

Accrediting Authority	means the Department of Agriculture and Food - Quarantine WA
Accredited Source Property	means a source property with current area/property freedom accreditation granted by an Authorised Officer of the Department of Agriculture and Food Western Australia.
Application For Accreditation	means an application for Accreditation of a Business for a <i>Property Accreditation</i> .
APVMA	Mean the Australia Pesticides and Veterinary Medicines Authority
Area / Property Freedom Quarantine Requirement	means a quarantine requirement applying to intra or interstate movement that requires produce to be sourced from properties that are in an area which is free or a specified distance from a known outbreak of a specified pest or disease, or sourced from properties that are inspected and found free from a specified pest or disease.
Certified/Certification	means covered by a valid Plant Health Assurance Certificate.
Consignment	means a discrete quantity of packages or a bulk load consigned to one business at one location at one time.
DAFWA	means the Department of Agriculture and Food
Interstate Certification Assurance	means a system of Certification Assurance developed to meet the requirements of State and Territory governments for the certification of produce for interstate and intrastate quarantine purposes.
Non-conformance	means a nonfulfilment of a specified requirement.

Package	means the final outer covering in which certified produce is consigned and may include a box, carton, bin, bundle or other packaging unit.
PHAC	means a <i>Plant Health Assurance Certificate</i> .
PHC	means a <i>Plant Health Certificate</i> .
QWA	means Quarantine WA
Source Property	means a property on which produce is grown or packed.

5. RESPONSIBILITY

These position titles have been used to reflect the responsibilities of staff under this protocol. These positions may not be present in all Businesses, or different titles may be used for staff who carry out these responsibilities. In some Businesses one person may carry out the responsibilities of more than one position.

5.1 Appointment of Persons Responsible

The **Nominated Person(s)** is responsible for-

- representing the Business during bait surveys and other matters relevant to this protocol; and
- ensuring the Business has current accreditation for host material certified under this protocol; and
- ensuring the Business has current property accreditation for each property owned or managed by the Business on which produce is grown, handled, stored, packed or dispatched for certification under this protocol ; and
- ensuring all host material is stored and transported in secure conditions which prevents cross-infestation by uncertified produce ; and
- maintaining copies of all bait 'Survey Records' issued to the business; and
- maintaining copies of all bait 'Survey Log Sheets'.

5.2 Arranging a Bait Survey

- The nominated person is to ensure the baits are laid as per 6.2.1, 6.2.2.
- The baits are to be laid between the 1st and 4th day of the month in which your bait survey expires (excluding the months December to March which are not suitable for snail activity).
- You are required to make contact with Quarantine WA (QWA) on or before the day of laying the baits to arrange for a QWA Inspector to conduct a survey. The surveys must be conducted 3-10 days after the baits are laid (provided conditions had been suitable for snail activity).

**Quarantine WA will not be contacting accredited businesses to remind them.
Quarantine WA can be contacted on 08 9334 1800**

6. REQUIREMENT

6.1

Baiting



State	Trade Name	Active ingredient	Application Rate
New South Wales, South Australia, Tasmania & Victoria	Mesuro® Snail & Slug Bait; or Baysol® Snail & Slug Bait; or Any bait containing Methiocarb at the required rate. or	Methiocarb @ 20g/kg	15kg per baited hectare
	Any similar sized molluscicide pellets	Various: Must be registered by the APVMA as a molluscicide	At label Rate

Cover Spraying



State	Trade Name	Active ingredient
New South Wales, South Australia, Tasmania & Victoria	Mesurool® 750 as per Off Label Permit PER9424	Methiocarb @ 750g/kg

6.2 LEAFY VEGETABLES, TURF, HAY, MATURE TREES AND NURSERY STOCK

6.2.1 Grown or packed on a property within 25 kilometres of an infestation of green snail but more than 2 kilometres from a green snail infested property.

Any plant, including any leafy vegetable, cutting, potted plant, bare rooted plant, mature tree, cut flower, foliage, or hay is prohibited unless certified that:

- (1) the property on which the host material has been grown or packed has been:
 - (a) baited using a chemical as per 6.1, to be laid on the property in 3m wide strips (at 15kg per baited hectare) around the perimeter of the property and as transects through the property on a grid pattern of:
 - i. 100 metres for properties up to 5 hectares;
 - ii. 200 metres for properties between 5 and 10 hectares; and
 - iii. 300 metres for properties greater than 10 hectares; and
 - (b) inspected by an authorised inspector, within 3 months prior to export, along bait trails 3 to 10 days after baits were laid and found free of green snail.
- (2) all propagating/potting media with a soil component has been:
 - (a) stored in areas which are baited and found free of green snail; or
 - (b) treated by:
 - i. fumigation with methyl bromide at 0.6kg/m³ for 72 hours on an impervious floor at a depth of no more than 660mm deep; or
 - ii. heating with a steam/air mix at 60°C for 30 minutes; or
 - iii. by fumigation with a chemical containing 940g/kg dazomet as per label directions.

Bait trails are to be inspected by an authorised inspector every 3 months.

NOTE: Between December and March inclusive, snails are not active and baiting is therefore not effective. Exporters wishing to export for the first time or who have missed their September/October/November baiting cannot export until their property has been bait surveyed and found free from green snail after the following March.

6.2.2 Grown or packed on a property within 2 kilometres of a green snail infested property

Any plant, including any leafy vegetable, cutting, potted plant, bare rooted plant, mature tree, cut flower, foliage, or hay is prohibited unless certified that:

- (1) the property on which the host material has been grown or packed has been:
 - (a) baited using a chemical as per 6.1, to be laid on the property in 3m wide around the perimeter of the property and as transects through the property on a grid pattern of:
 - i. 50metres for properties up to 5 hectares;
 - ii. 100 metres for properties between 5 and 10 hectares; or
 - iii. 200 metres for properties greater than 10 hectares or
 - iv. in the case of small properties, at least two transects running through the centre of the property at right angles; and

- (b) Inspected by an authorised inspector within three months prior to export along bait trails 3 to 10 days after baits were laid and found free of green snail; and
- (2) the property has a hygiene program in place which includes:
 - (a) the removal of vegetation from a 3m wide strip around the perimeter of the property; and
 - (b) green snail control measures including:
 - (i) baiting using chemical as per 6.1, applied each four weeks between the months of April and November, inclusive; or
 - (ii) a continuous physical barrier constructed of:
 - (A) galvanised sheet bent at an angle of 20° to the soil surface; or
 - (B) an electric fence designed specifically for snails; and
 - (c) a continuous trench:
 - (i) on the inside of the above strip (refer sub-clause (a));
 - (ii) containing an unbroken line of bait;
 - (iii) between the months of April and November inclusive; and
 - (d) sourcing of any imported plant material from properties known to be free of green snail; and
 - (e) maintenance of vehicular access by:
 - (i) baiting parking areas in accordance with subclauses (a) & (b); and
 - (ii) protection of driveways with a continuous trench of concrete 100mm wide and 100mm deep; and
 - (f) the storage of stock for export more than 30m from a baited boundary trench; and
- (3) plants have been grown in a potting media, which has a soil component, where:
 - (a) media storage areas are baited and found free of green snail; or
 - (b) the media has been treated by:
 - (i) fumigation with methyl bromide at the rate of 0.6kg/m² for 72 hours, where the media is stored on an impervious floor to a depth of no more than 660mm; or
 - (ii) fumigation with a chemical containing 940g/kg dazomet as per label directions; or
 - (iii) heating with a steam/air mix at 60°C for at least 30 minutes.

(New South Wales, South Australia and Tasmania ONLY)

- (4) Within two days prior to export, plants are to be cover sprayed with an approved molluscicide as per 6.1 (Cover Spraying).

Bait trails are to be inspected by an authorised inspector every 4 weeks

NOTE: Between December and March inclusive, snails are not active and baiting is therefore not effective. Exporters wishing to export for the first time or who have missed their September/October/November baiting cannot export until their property has been bait surveyed and found free from green snail after the following March.

6.3 CUT FLOWERS, CUTTINGS, & BARE ROOTED STOCK

For the period December to March inclusive, stock can be exported without restriction (Snails are aestivating and do not pose a risk).

Any cut flowers, foliage, cuttings or bare rooted plants grown and packed within 25km of a green snail infestation is prohibited unless certified that:

- (i) The property of origin must be certified or accredited by The Department Agriculture and Food Western Australia as bait surveyed and found free from green snails as for 6.2; and

- (ii) Imported plant material to be sourced from known green snail free areas (assessed as per 6.2.1, 6.2.2, of this protocol or sourced from a property greater than 25km from a known outbreak of green snail); or
- (iii) Inspected and found free from green snail; or
- (iv) **(South Australia and New South Wales only)**
Certified by an officer of the Department of Agriculture and Food or under an Interstate certification Assurance Arrangement (ICA) as cover sprayed to the point of run-off with a mixture containing methiocarb as per 6.1 (Cover Spraying).

6.3.1 Bush picked flowers and plants

- (i) Certified as being inspected and found free from green snail; and

PACKING - If not packed on the property then:

- (i) If packed within 25 km of an infestation, the premise must be bait surveyed as per 6.2 and found free from Green Snail;
or
- (ii) If packed in packing sheds in urban situations with no host plants in the vicinity, then the premise and immediate environs must be inspected to ensure they are free from Green Snail. If both certified and uncertified product is packed on the same premise, then measures must be taken to ensure no cross contamination can occur.

6.4 In the case of any green snail host material grown greater than 25km from a known outbreak:

Any plant, including any leafy vegetable, cutting, potted plant, bare rooted plant, mature tree, cut flower, foliage, or hay is prohibited unless certified that:

- (1) the plants were grown and packed on a property more than 25km from a known infestation of green snail.

7. DETECTION OF GREEN SNAILS

- (1) Properties where green snails have been detected will not be permitted to export plants until three months freedom from green snail is verified by monthly bait surveys and three inspections during the green snail activity period (ie. April to November inclusive).
- (2) Properties where green snail has been detected will have their accreditation suspended until freedom can be re-established as per 7.1.

8. SYSTEM DOCUMENTATION

The Business shall maintain the following documentation;

- (a) a copy of the Business's current Application for property accreditation;
- (b) a current copy of this Protocol; and
- (c) a of the Business's current bait 'Survey Record'; and
- (d) a copy of the Business's bait 'Survey Log'.

System documentation shall be made available on request by an Authorised Officer.

9. NON-CONFORMANCES AND SANCTIONS

9.1 Incident Reports

Incident Reports may be raised by interstate quarantine authorities to report the detection of a non-conformance in produce certified under this accreditation. An investigation into the incident shall be conducted and findings reported back to the originator.

If the integrity of the accreditation has been significantly compromised, the incident may provide grounds for the suspension or cancellation of the accreditation.

9.2 Suspension and Cancellation

DAFWA may suspend or cancel an accreditation when an accredited business is found, for example, to have:

- detection of green snail on the property;
- obtained accreditation through the provision of false or misleading information;
- not paid fees owing to the DAFWA;
- contravened an accreditation requirement that compromises the integrity of the arrangement; and/or
- not rectified a non-conformance.

Any action taken by DAFWA to suspend or cancel an accreditation shall be provided in writing to the business. This shall also provide guidance on the lodgement of a written appeal requesting that the decision be reviewed.

10. ATTACHMENTS

Attachment 1	<i>Green Snail Baiting Survey Technique</i>	Information
Attachment 2	<i>Survey Record</i>	Example
Attachment 3	<i>Survey Log</i>	Blank

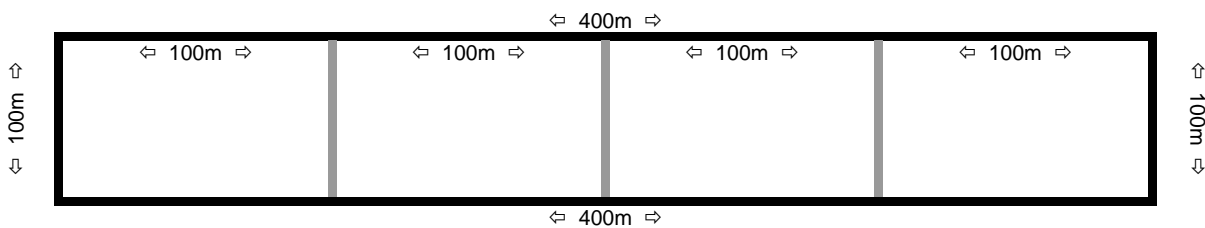
Attachment 1

GREEN SNAIL BAITING SURVEY TECHNIQUE
Baited Trails or Furrows

- ❖ Along external perimeters of property and extending for 100 metres past these where practicable.
- ❖ Internally within property on a 100 m grid pattern (or equivalent to fit in crop plantings and buildings etc.). For small properties at least two transects running through the centre of the property at right angles.

The baited trails/furrows should be on verge type areas not affected by traffic (which might interfere with detection). For trails, bait must be easily visible on the ground, equivalent to 15 kg bait per baited hectare. Baited furrows if used, should have a continuous line of baits at base. (NB: If trail area is covered by tall grass etc., a strip may need to be ploughed so that bait pellets can be seen.)

- Property owner may lay baits without supervision.
- Follow-up inspection by The Department Agriculture and Food Western Australia to be minimum of three days after pellets laid or longer if during that time conditions had not been suitable for snail activity (i.e. no heavy dew or rain).
- Property owner to book with Quarantine WA, Perth International Airport for further baiting surveys before the end of the accreditation periods.
- Property will be accredited after the bait trail inspection, if no green snails are found. –Use molluscicide pellets as per 6,
- Baited hectareage to be calculated by adding up the total length of all bait trails and multiplying by 3 metres. This gives a baited area in square metres which is then converted to hectares (10,000 m² = 1 hectare) for example.
 - A property 400m wide by 100m deep



— Perimeter trail
— Transects trail

$$\begin{aligned} \text{Perimeter} &= (400\text{m}+400\text{m}+100\text{m}+100\text{m}) \times 3 = 3000\text{m}^2 \\ \text{Transects} &= (100\text{m}+100\text{m}+100\text{m}) \times 3 = 900\text{m}^2 \\ \text{Total baited area} &= 3000\text{m}^2 + 900\text{m}^2 \\ &= 3900\text{m}^2 \\ 3900\text{m}^2 \div 10000 &= 0.39 \text{ hectares} \\ 15\text{kg} \times 0.39 \text{ hectares} &= 5.85\text{kg of snail bait required.} \end{aligned}$$

To book an inspector please telephone (08) 9334 1800 (0730 – 1630 Mon – Fri)

Attachment 2

SURVEY RECORD

SURVEY RECORD

Business Name: Fred's Plant Place
 Interstate Produce Number: W-9999
 (if known)
 Facility Number _____

This is to verify that your property located at;
Lot 1, Somewhere Rd, Somewhere WA
 Address

has been bait surveyed and found free from Green Snail on: 7/4/2010
 Date

and

All propagation/potting media with a soil content meets one (1) of the conditions in the Green Snail (*Helix aperta*) Bait Survey Requirements to other States

The survey is valid until: 14th Day of May 2010
 Date

To Arrange Re-accreditation

The baits are to be laid between the 1st and 7th day of every month (excluding the months December to March which are not suitable for snail activity).

You are required to make contact with Quarantine WA (QWA) on or before the day of laying the baits to arrange for a QWA Inspector to conduct a survey. The surveys must be conducted 3-4 days after the baits are laid (provided conditions had been suitable for snail activity). Quarantine WA will no longer be contacting accredited businesses to remind them.

Inspector: 

Date: 7/4/2010

