



NSW DEPARTMENT OF
PRIMARY INDUSTRIES

Emergencies & Animal Welfare Branch
Locked Bag 21, Orange NSW 2800
Tel: (02) 6391 3680 Fax: (02) 6391 3740
Email: emergency.preparedness@industry.nsw.gov.au

Procedure – Deployment and use of insecticide misters for plague locust control

Authorised by	Director, Emergencies and Animal Welfare	Authorisation date	24/08/09
Authorisation period		Effective date	26/11/08
Prepared by	J Loughlin – Safety Manager, SCC		
Contact Officer	Operations Manager - SCC		

REVISION HISTORY

Version	Date	Amendments	
		Section	Details
1	29 Nov 08		For approval
2	18 Aug 09	All 4	Format updated; update NSW DPI to I&I NSW Remove use of Chlorpyrifos EC

1. Application / Scope

- Misters used for the control of plague locusts must be safely calibrated, operated and cleaned
- Misters are to be used in association with the operational manual for the specific brand and model of mister being used
- Only persons with appropriate chemical application accreditation are permitted to apply insecticides
- LHPAs may have mister units which landholders may borrow for the purpose of insecticide application for locust control

2. Abbreviations / Definitions

- EC - emulsifiable concentrate
- I&I NSW – Industry and Investment NSW (formerly NSW Department of Primary Industries)
- MSDS – material safety data sheet
- ULV – ultra low volume

3. Resources / Equipment

- Appropriate manufacturer's operating manual
- Insecticide
- Landholders consultation record
- Mister
- Water supply

4. Warnings

- Persons applying insecticides with an insecticide mister require appropriate chemical application accreditation, to at least AQF3 level.
- To avoid human health impacts and adverse affects on the environment comply with insecticide labels and material safety data sheets (MSDSs) and any associated permits. Considerations should include (but not limited to) application buffers, application rates, weather conditions, identification and avoidance of sensitive areas (water bodies, buildings etc), withholding periods, and correct selection of PPE.
- Clean water for decontamination should always be on hand whilst using locust control insecticides. Do not eat, drink or smoke whilst using the mister or whilst handling insecticides.
- Misters are only to be used to spray emulsifiable concentrate (EC) formulations of fenitrothion (e.g. Fenitrothion 1000) only.
- **ULV formulations, such as Sumithion® ULV, are not to be applied with misters.**

Read and follow the insecticide label before applying the insecticide.

5. Procedure

5.1 Deployment of mister

- Limited numbers of misters are available at LHPAs and are to be distributed according to current or predicted locust activity.
- Landholders may request to borrow a mister unit from the LHPA for the purposes of application of insecticide for the control of plague locusts.
- Misters should be checked to be in working order prior to deployment and again when returned to the LHPA. Repairs of misters are the responsibility of the LHPA, with approval for expenditure from I&I NSW.
- LHPA personnel should determine if the landholder is competent to use the mister and provide a demonstration if required

- Misters are to be supplied with:
 - Manufacturer's operating manual
 - Appropriate insecticide with MSDS, label and permit
- Landholders must sign the Landholder consultation record to acknowledge receipt of the mister and compliance with OHS legislation and Pesticides Act 1999 in relation to the use of spray equipment and the recording of spray applications on the land they occupy, manage or own.

5.2 Calibration of mister

The operational manual for the mister includes one method of calibrating the unit. An alternative method for the [calibration of misters and boomless jets](#) is described on the NSW DPI web page. Either method can be used.

Ensure the unit contains clean water and is free of insecticide during the calibration process.

5.3 Use and cleaning of the mister

Follow the operation manual for the mister, including:

- Performing the routine maintenance checks before use
- Complying with spraying conditions requirements eg weather, environmental constraints
- Cleaning the unit after use

Note: Only mix sufficient spray solution to complete the job as extra solution may pose a disposal problem.

6. References

Information

- Manufacturer's operating manuals for misters
- [Pesticides Act 1999](#)
- [Occupational Health and Safety Act, 2000](#)
- [Occupational Health and Safety Regulation 2001](#)

Form

- [Calibration of misters and boomless jets](#)
- [Landholder consultation record](#)

7. Appendices