



Introduction

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Purpose

The procedures and treatment schedules listed in this manual are administratively authorized for use in Plant Protection and Quarantine (PPQ). The treatment of listed commodities prevents the movement of agricultural pests into or within the United States. An officer may determine that other commodities require treatment to prevent similar pest movement.



Do not treat unlisted commodities until consulting and receiving approval from the Center for Plant Health Science & Technology (CPHST) in Raleigh, North Carolina.

Approval from CPHST **must** be obtained each time a treatment schedule is used that is **not** an approved schedule from this manual.

Restrictions

Treatment recommendations listed in this manual are based on uses authorized under provisions of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended. Directions appearing on the label, Section 18 Emergency Exemptions, and manual instructions must be followed. Nevertheless, some treatments may damage commodities.

PPQ personnel may **not** make any warranty or representations, expressed or implied, concerning the use of these pesticides.

The occasional use of registered trade names in this manual does **not** imply an endorsement of those products or of the manufacturers by the U.S. Department of Agriculture, Animal and Plant Health Inspection Service (USDA, APHIS).

Scope

This manual covers all treatments for import, export, and those domestic plant pests which are of quarantine significance. This manual is broadly divided into ten sections:

- ◆ Chemical Treatments
- ◆ Nonchemical Treatments
- ◆ Residue Monitoring
- ◆ Treatment Schedules
- ◆ Certifying Facilities
- ◆ Emergency Aid and Safety
- ◆ Equipment
- ◆ Glossary
- ◆ Appendixes
- ◆ Index

Each section is tabbed and contains a Table of Contents, an Overview, and where appropriate, a Methods and Procedures section. The Overview is a broad, general description of what is covered in the section. Methods and Procedures cover the “how to” of that particular activity as well as procedural and reference material for performing tasks associated with each activity.

The Appendixes contain information directly associated with treatment activities, but are placed in the back so they do **not** interfere with the flow of procedural instructions.

Users

This manual is used primarily by PPQ officers, Headquarters personnel, and State cooperators involved in conducting treatments. The secondary users of this manual are other government agencies, fumigators, pest control operators, foreign governments, and other interested parties.

Related Documents

The following documents are related to the treatment manual:

- ◆ Pesticide labels and labelling
- ◆ Material Safety Data Sheet (MSDS)
- ◆ APHIS Safety and Health manual
- ◆ Federal Insecticide, Fungicide, Rodenticide Act as amended
- ◆ Plant Import manuals (Propagative and Nonpropagative)
- ◆ Code of Federal Regulations (CFR)
 - ❖ Title 7 (Agriculture)
 - ❖ Title 46 (Shipping) Chapter 1, Part 147—Interim Regulations for Shipboard Fumigation
- ◆ Occupational Safety and Health Administration (OSHA) treatment manual

Application

This manual serves both as a field manual for employees conducting treatments and as a reference for PPQ officers, program managers, and staff officers. Under APHIS policy, only certified pesticide applicators may conduct or monitor treatments. This manual will also serve as a reference for researching the types of treatments available for imports and to answer questions from importers, industry, and foreign countries.

How to Use This Manual

Review the content of this manual to get a feel for the scope of material covered. Glance through the section that you will be using and familiarize yourself with the organization of information. Major headings such as Chemical Treatments and subheadings such as Fumigants will be tabbed. Each section is divided by tabs so when you want to find information on taking residue samples, you would turn to the tab labeled “Residue Monitoring” and check the Table of Contents for the page number.

Use the Table of Contents which follows each tab to quickly find information. If the Table of Contents is **not** specific enough, then turn to the Index to find the topic and page number.

Reporting Problems

If you want to suggest an improvement or identify a problem with the content of this manual, complete and mail the “Comment Sheet” at the back of this manual. If the problem is urgent, email Josie.Cooley@aphis.usda.gov or call (240) 529-0358. If you disagree with the guidelines or policies contained in this manual, contact Quarantine Policy, Analysis and Support (QPAS) through channels.

Conventions

The following are terms that are widely recognized and used throughout this manual:



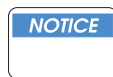
Indicates that people can easily be hurt or killed



Indicates that people could possibly be hurt or killed



Indicates that people could possibly be endangered and slightly hurt



Indicates a possibly dangerous situation, goods might be damaged



Indicates helpful information

EXAMPLE: indicates additional information that helps to clarify the content in the manual

Treatment schedules which are FIFRA Section 18 Exemptions (such as the sample below) are followed by an “Important” note to help you determine the current exemption status.

Temperature	Dosage Rate (lb/1,000 ft ³)	Minimum Concentration Readings (ounces) At:			
		0.5 hrs	2 hrs	3 hrs	3.5 hrs
90 °F or above	2 lbs	26	19	19	—
80-89 °F	2.5 lbs	32	24	24	—
70-79 °F	3 lbs	38	29	24	—
60-69 °F	3 lbs	38	29	—	24



Important

Do not use this treatment schedule if its FIFRA Section 18 Exemption has expired. For the current exemption status, call your local State Plant Health Director (SPHD).

