

How to Use

2011 Pacific Northwest Insect Management Handbook

The *PNW Insect Management Handbook* is a regional guide to arthropod management for commercial crops, home gardens and landscapes.

OSU Master Gardeners offer management recommendations from the PNW Handbooks, the online PNW Handbooks, or other current Oregon State University Extension publications.

The online edition is at <http://insects.ippc.orst.edu/pnw/insects>.



OSU policy for Master Gardener recommendations to clients:

- MGs provide research-based management.
- MGs don't suggest home remedies.
- MGs offer all options: Cultural, biological, and chemical (synthetic and organic).
- The client decides which options s/he will follow.

Caution: Don't send links to clients; instead copy & paste, then delete commercial data.

Home-Use information

- Home-use information is incorporated throughout the handbook
- Chemical management for home-use and commercial-use are in clearly separated sections
(Commercial-use recommendations are oz/gal or lb/Acre)
- Home use products may be unavailable for some entries.

Special article

EMERGING PEST: Spotted wing drosophila (*Drosophila suzukii*),
a new berry, grape, and stone fruit pest (page ix)

Host (plant) and Pest Descriptions

- Plant name
- Pest common name and pest Latin name
- Pest description and crop damage
- Biology and life history
- Scouting and thresholds
- Management: biological control
- Management: cultural control
- Management - chemical control: HOME USE
 - Chemical listed by active ingredient, only
 - Active ingredients are listed alphabetically
 - Clients will need to read labels of products sold at retail outlets
 - Management - chemical control: COMMERCIAL USE
(Commercial dosage is stated in oz/gal or lb/Acre)
- Occasionally, additional resources

Table of Contents

- Sorted by crop
- Home-use information is incorporated into the general format
- Chemical management suggestions for Home-Use and Commercial-Use are in the same entry but in these clearly delineated sections:
 - Management – Chemical control: HOME USE
 - Management – Chemical control: HOME USE

Sections with Home Use information

Caution: If dosage is oz/gal or lb/Acre, the material is for commercial use.

- **Bee Protection** (Essential information for all gardeners.)
- **Horticultural, Landscape and Ornamental Crops**
(Home-use is in only 2 of the 4 sub-headings)
 - **Landscape**
 - **Turfgrass**
- **Nut Crops**
- **Small Fruit Crops**
- **Tree Fruit Crops**
 - **CHART:** Stages of Bud Development; useful to time dormant sprays
- **Vegetable Crops**
- **Structural and Health Pests**
 - **Nuisance and Household Pests** (Ants, clothes moths, pantry pests, etc.)
 - **Public Health Pests** (Bed bugs, fleas, wasps, etc.)
 - **Wood-Infesting Insect Pests** (Carpenter ants, termites and more)
 - **CHART:** Wood Boring Beetles
(Details about emergence hole size , larval gallery, frass, etc.)
 - Purchasing Pest Management Service
 - Questions to ask before hiring a pest management professional
- **Reference** (These topics and more)
 - Integrated Pest Management
 - Pesticide Application
 - Safe Pesticide Use
 - What to Do in Case of Pesticide Poisoning
 - Acute Toxicity Data on Pesticides
- **Index**
(Alphabetical list of hosts by common name; pests; and special topics)