

California Melon Research Board Final Report 2012

Title: Maintaining UC IPM Pest Management Guidelines for Melons and other Cucurbits

Submitted by: Kassim Al-Khatib

Project Period: March 1, 2012–December 31, 2012

What's New

UC IPM Pest Management Guidelines: Cucurbits, the University of California's official guidelines for managing pests in melons, was updated.

Update highlights:

- Relative toxicities of pesticides to natural enemies and honey bees updated
- New mulch and solarization section
- Diseases updated (charcoal rot, downy mildew, Fusarium wilt (cantaloupe and watermelon), powdery mildew, root rots, sudden wilt, vine decline disease, Verticillium wilt, potyviruses)
- Nematodes updated
- Insects and Mites updated (armyworm, cabbage looper, cucumber beetles, cutworms, darkling beetles, European earwig, flea beetles, green peach aphid, leafhoppers, leafminers, melon aphid, seedcorn maggot, spider mites, squash bug, stink bugs, whiteflies)
 - New insecticides
 - New stink bugs (conspere and Say's)
 - Monitoring information enhanced, especially for whiteflies
 - Cucumber beetle adult field key added
- Weeds updated, including new herbicides
 - New instruction page on how to customize the herbicide susceptibility tables

Crop Team and Authors

UC IPM coordinated the process and edited material for clarity, completeness, and to conform to format and style. The Crop Team helped to manage the overall direction of the Pest Management Guidelines and, with the authors, provided scientific content.

2011–2012 Crop Team

Scott Stoddard (Crop Team Leader)

Pete Goodell (IPM Facilitator)

Ole Becker

Donna Henderson (2011)

Tom Lanini

Eric Natwick

Tom Turini

Authors

Ole Becker

Mike Davis

Tom Lanini

Eric Natwick

Jim Stapleton

Scott Stoddard

Tom Turini

Becky Westerdahl

UC IPM Pest Management Guidelines: Cucurbits (UC ANR Publication 3445) –
<http://www.ipm.ucdavis.edu/PMG/selectnewpest.cucurbits.html>

The version updated includes

- a year-round IPM program
- 3 general information sections
- 22 disease sections
- 1 nematode section
- 23 insect and mite sections
- 6 weed sections

Update Process

During the development of the year-round IPM program, the Pest Management Guidelines were updated.

1. The Crop Team submitted changes and the Coordinator worked with the members and other authors to incorporate. The Coordinator wrote and/or edited informative text and tables based on information supplied by authors, reading of trade journals and other scientific literature, participation of UC scientific workgroups, or knowledge of pesticide label changes.
2. The Coordinator made these changes, reconciling them to one another and going back to the authors for clarification, editing the manuscript for flow and style.
3. The resulting manuscript was returned to authors for review. Authors reviewed the updated manuscript and either approved or made additional changes. If additional changes were needed, they were incorporated by the Coordinator and reviewed by the authors; this process continued until the authors approved.
4. The Coordinator submitted the manuscript to the UC ANR Office of Pesticide Information and Coordination to ensure the pesticide information was accurate.
5. The Coordinator worked with the UC IPM Production Team to get the manuscript prepared and posted to the UC IPM Web site. This was done June 12, 2012.