



California Urban IPM Apprenticeship

Teaching skills to improve pest and weed management across California

Selecting Appropriate Pesticides for Target Pests and Pesticide Resistance Management

- Webinar #11

Wednesday April 30th, 2025

Noon to 1:30 pm PDT

Zoom link: bit.ly/CAUrbanIPMApril25

Webinar abstract:

This webinar will review protocols for selecting pesticides for target pests, avoiding pesticide resistance and mitigating human-health and environmental risk. This includes an overview of pesticide mode of action and identifying best practices and resources for pesticide selection. Apprentices will leave this webinar with an understanding of pesticide best-use practices to confidently make management decisions.

Learning objective(s) addressed:

(5) Understand the major pesticide categories used in structural and landscape pest management, i.e., insecticides, fungicides, herbicides, rodenticides and how their use impacts the following:

- a. Pesticide selection for target pests based on mode-of-action
- b. Resistance management
- c. Human-health impacts from pesticide exposure
- d. Environmental impacts from pesticides, including non-target exposure
- e. Pesticide risk-mitigation strategies

Presenter name/bio:

Andrew Sutherland

Dr. Andrew Sutherland is an extension entomologist helping to develop new IPM strategies and adapt existing IPM strategies for urban pest management professionals. His goals include education about IPM principles, development of IPM programs for clientele, reduction in unnecessary pesticide applications and mitigation of surface water contamination due to urban pesticide applications.



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Schedule

Agenda Topic	Description
Roll-call (5 minutes)	<i>Leader:</i> Josie Dillon
Mode of action overview (20 minutes)	<i>Presenter:</i> Andrew Sutherland <ul style="list-style-type: none"> • Insecticides • Fungicides • Herbicides • Rodenticides
Pesticide resistance mitigation (15 minutes)	<i>Presenter:</i> Andrew Sutherland <ul style="list-style-type: none"> • Resistance development in insects/weeds • Mitigation strategies
Pesticide Selection (15 minutes)	<i>Presenter:</i> Andrew Sutherland <ul style="list-style-type: none"> • Monitoring/identification of pest • Selecting appropriate product • Re-entry interval • Application timing
Human health and environmental risk mitigation (15 minutes)	<i>Presenter:</i> Andrew Sutherland <ul style="list-style-type: none"> • Pesticide label • Pesticide safety data sheet • Ecotoxicology resources
Question and Answer Session (10 minutes)	<i>Facilitator:</i> Josie Dillon
Post-Quiz (10 minutes)	<i>Leader:</i> Josie Dillon <ul style="list-style-type: none"> • Ten question quiz • Need 70% to pass