

Pesticides: Safe and Effective Use

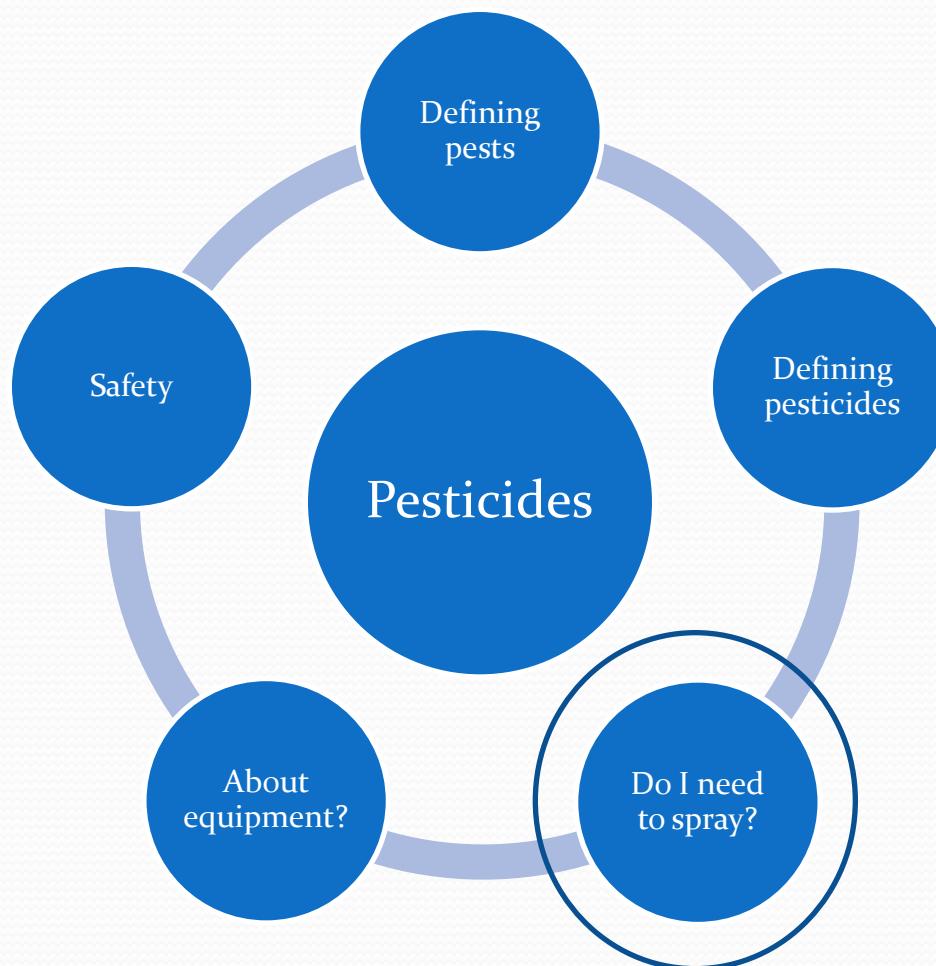
Prepared by Mark Bell, Mark Henderson and
Frank Zalom with input from
Ehsan Ehsanullah
and Tom Brown



Course objectives

- Know key points in the application and safe use of pesticides
- Note: At the end, participants will take a review quiz to show they can recall all the key points.
- Support materials – fact sheets and check lists, review quiz,

Course structure



Do I need to spray?



- Before using a pesticide here's 5 questions you should ask.....

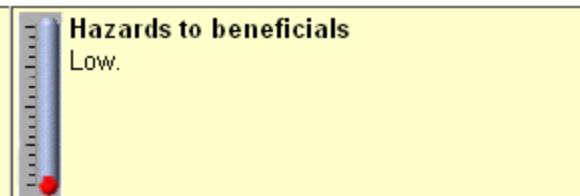
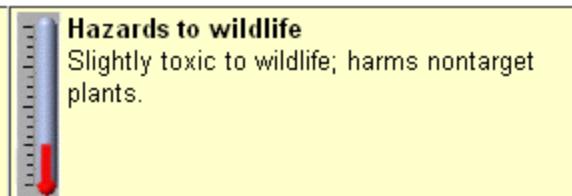
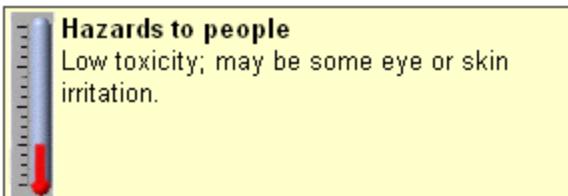


Compressed
air
sprayer

A common type of home garden application equipment, the compressed air sprayer.
Illustration by D. Kidd.

Do I need to spray?

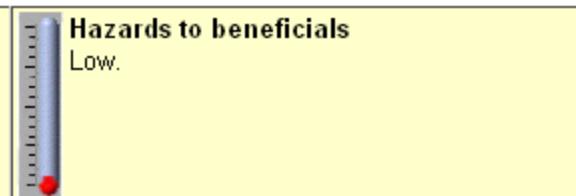
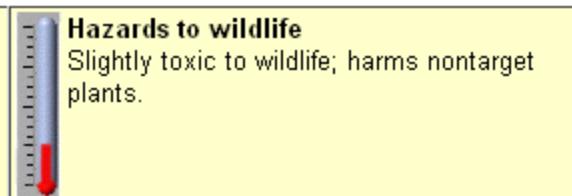
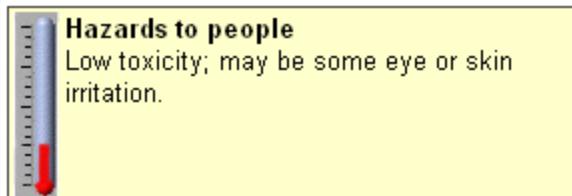
1. What is causing the problem?
Is the pest really the cause of the problem?
2. What are the control options?
Are there other options to a pesticide?
3. Are there enough pests to justify a pesticide spray?



Do I need to spray?



4. What products are both available and effective?
 - Is there a product to control the pest and suitable for use in the target crop?
 - Is it the right time to control and use the product?
 - Will spraying be economic?
5. Is the product safe for the crop, the environment and beneficial insects? Will there be residues on the produce or land?



**ONLY APPLY PESTICIDES
AT RIGHT TIME**



Photo: Pesticide Management Education Program
– Cornell Cooperative Extension

Do I need to spray?

Project targets for pesticides

- Low toxicity (LD₅₀ should be over 1000)
- Comply with “Pesticide Evaluation Report and Safer Use Action Plan” (PERSUAP)
- Consistent with UC Davis IPM guidelines.
- Control serious pests of grapes, pomegranates, stone fruit, (especially apricots), almonds, melons and major vegetables.
- Can be used with a wheel barrow sprayers.