

COLORADO MASTER GARDENER TRAINING

# Training Guide: IPM & The Diagnostic Process

## SETTING UP

#### Materials needed:

- This Training Guide
- □ GN #105 Homework and Answers (in this guide)
- □ GN #103 Worksheet (Pesticide Label activity) copies for class

>> REVIEW HOMEWORK

### GardenNotes #105

Time: 10 minutes

## Homework: IPM & Diagnostics

- Why is Integrated Pest Management (IPM) the best approach to managing pest problems?
   Integrated pest management is the toolbox we use for pest management. It combines cultural, mechanical/physical, biological, and chemical management strategies. We can use any or all of these to manage pest problems in the landscape.
- Why is it important to discuss tree care issues as they relate to growth phases? Because different phases of a tree's growth require different management strategies, i.e. water, fertilizer, pruning, etc.
- What is the first step in the diagnostic process?
   The first step in the diagnostic process is to identify the plant you are trying to diagnose.
   If we don't know the plant, then we are not able to find out what commonly occurs on the plant and we could provide a wrong diagnosis.
- 4. Why is it important to know what is "normal" for a given plant? We need to know what the plant is supposed to look like so when looking at a sample we can see if it is looking different than it is supposed to look. Then we can then start to figure out what is abnormal or different and potential reasons for the deviation.

#### ACTIVITY:

### PESTICIDE LABEL ACTIVITY

#### Time: 30 minutes

- 1. Handout worksheets: GardenNotes #103 including pesticide label.
- 2. Have students team up in small groups or work independently.
- 3. Give students 5-10 minutes to discuss and answer questions.
- 4. Bring class back together to review answers. Offer suggestions/clarifications based on the answers in this guide.

#### CMG GardenNotes #103

## **Reading Pesticide Labels Worksheet**

Find the answers to the questions on the label provided.

Instructors: the numbers in text boxes correspond to the location for the answers.

- What are the active ingredients? Sulfur (0.20%) and Pyrethrins (0.01%). (Under CAUTION on front of pesticide label.)
- 2. Can I apply this product to lilacs? The plant has powdery mildew and aphids . Yes, the use site and pests are on the label. Look in "Pest" box next to "Ornamentals" box. Note: even if only the site was on the label ("lilacs" or "trees and shrubs") it would still be okay to apply the product.
- 3. I've applied this to my cabbage crop. How long do I have to wait after the application to eat it?

One day.

- What is the mode of action for this product?
   It is a "contact killer". See the green paragraph above "the "Quick Facts" bar.
- Will this product harm freshwater clams?
   Yes they're freshwater invertebrates. (See "environmental hazards").
- 6. What action do I take if I accidentally spill this product on my shirt sleeve? Take off contaminated clothing. If you get it on your skin, rinse it immediately with plenty of water for 15 -20 minutes. You can also call your doctor or poison control center.

7. How do I dispose of the empty container?

Label directions say to place in trash or recycle if the service is available.

- 8. How should I store this product? Store at room temperature and keep from freezing.
- Can I use this product in my greenhouse where I grow culinary herbs for sale? No, the label states the product is only for use on home gardens and lawns. It is not to be used on commodities for resale.









PESTICIDE STORAGE	Store at room temperature and protect from freezing.
PESTICIDE DISPOSAL AND	Nonrefillable. Do not reuse or refill this container. If Empty:
CONTAINER HATTALING	<ul> <li>Place in trash or offer for recycling if available.</li> <li>If Partly Filled:</li> <li>Call your local solid waste agency or call 1-877-229-3724 for disposal instructions. Never place unused product down any indoor or outdoor</li> </ul>
PR	CAUTIONARY STATEMENTS
This product is to the water when disposin Drift and run-off may Use for additional pr	(J) Bacable Dytan SNJ, Arthorne Farrands Physitebrates. Do not contaminate ig of equipment, washwater, or rinsate. Do not apply directly to or near water. / be hazardous to fish in water adjacent to treated areas. See Directions for ecautions and requirements.
PHYSICAL C Combustible. Do no	<b>IR CHEMICAL HAZARDS</b> tuseorstore near heat or open flame.
User Safety Recom	<b>mendations</b> hhands with plenty of soap and water before eating, drinking, chewing gum, using the toilet. ove clothing immediately if pesticide gets inside. Then wash thoroughly and ing.