How to Handle Insect & Plant Specimens for Identification

1. Fill out an Insect and Disease Diagnosis Worksheet (see pages 2-3) for each specimen. Please be COMPLETE; the accuracy of your diagnosis depends on the information you supply. Note: If you have more than 3 specimens @ one time, a charge of $15 is required for each additional specimen.

2. Pick and pack the specimens properly, being sure to use a CRUSHPROOF CARDBOARD BOX, according to the following directions:
   • Insects: Collect 5-10 samples of the insect you would like identified. Include samples of the plant host (if applicable to a plant issue), as well as the insect. Place them in a container (a plastic Rx bottle works well) in the freezer overnight. This will usually kill the insects so they do not escape when we open them here. After they are dead, tape the container shut, and place it with packing filler and the completed worksheet in a crushproof cardboard box.
   • Plants: Disease issues? Don’t be afraid to collect a large sample because a small sample may not contain all the signs needed to make an accurate diagnosis. Send a representative sample, including both damaged and healthy tissue. Plant material that has been dead for some time is useless in determining the causal agent.
   • Plant Identification: Include leaves, stems, roots, and flowering or seed bearing portions of the plant. Place green leaves between dry paper towels and enclose them in a plastic bag without added moisture. Carefully shake excess soil from roots. Place roots in a plastic bag with moist (not water-logged) wood shavings or torn paper towels to prevent material from drying out. Wrap fruits separately and without added moisture. Place your samples and the completed worksheet in a crushproof cardboard box.

3. To lessen the possibility of sample deterioration over the weekend, mail specimens no later than Wednesday morning to:

   UVM Extension Master Gardener
   63 Carrigan Dr., Jeffords-206
   Burlington, VT 05405-0107

   WALK-IN HOURS

   For seasonal hours, please call PRIOR to visiting: 802-656-5421.

   DIRECTIONS TO MASTER GARDENER HELPLINE OFFICE

   Take I-89 to Exit 14W. This brings you onto Route 2 west (Williston Road). Bear right after the second light onto East Avenue. Take a left @ the first light onto Carrigan Dr. Go thru the light @ the top of the hill (Jeffords will be on your left). At your first left there are metered parking spaces in the south end of the parking lot. There are also 3 parking meters located just after the first left in the north end of Jeffords. The Extension Master Gardener Helpline office is located on the 2nd floor, Room 201.

   WEED IDENTIFICATION

   Due to the high volume of all types of plant and insect specimens submitted during the growing season; weed identification will only be made to the genus level. Control or eradication methods can be correctly determined, and will be provided to you, based on the specimen’s genus.

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### Vt. Master Gardener Insect & Disease Diagnosis Worksheet

**Specimen #:**

(for office use only)

Name:  

Date:  

Street Address:  

City/Town:  

State:  

Zip:  

Home Phone:  

Work Phone:  

E-Mail:  

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1. **Type of Problem:**
   - [ ] Houseplant
   - [ ] Household
   - [ ] Yard (host unknown)
   - [ ] Yard or garden pest (host known)

   **If problem is a household insect, skip to Question 15.**

2. **Host:**
   - [ ] Tree
   - [ ] Vegetable
   - [ ] Annuals
   - [ ] Perennials
   - [ ] House Plant

3. **Common name of host plant:**

4. **How long have you had the affected plant?**

5. **Plant parts affected:**
   - [ ] Leaves
   - [ ] Stem
   - [ ] Roots
   - [ ] Entire Plant
   - [ ] Flowers
   - [ ] Trunk
   - [ ] Fruit
   - [ ] Unknown

6. **Symptoms noticed:**

   **LEAVES:**
   - [ ] Yellowing
   - [ ] Holes in leaves
   - [ ] Leaf rotting or streaking
   - [ ] Wilt
   - [ ] Leaf spots
   - [ ] Abnormal growth or gall
   - [ ] Defoliation
   - [ ] Burning of margins
   - [ ] Leaf curled or puckered
   - [ ] Other:

   **BRANCHES/TRUNK:**
   - [ ] Cracks in bark
   - [ ] Gummy discharge
   - [ ] White stuff on bark
   - [ ] Stunting
   - [ ] Abnormal growth on twigs or stem
   - [ ] Hole in trunk
   - [ ] Abnormal growth on trunk
   - [ ] Wilted branch tip
   - [ ] Other:

7. **Distribution of damage or disease symptoms on the plant:**
   - [ ] Top branches
   - [ ] Tip of branches
   - [ ] Scattered throughout
   - [ ] Bottom branches
   - [ ] All branches on one side
   - [ ] All over plant

8. **When was the problem first noticed?**

9. **Soil drainage:**
   - [ ] Very wet
   - [ ] Very dry
   - [ ] Good drainage

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**Please Continue On Page 2**
10. How often do you water: □ Yes □ No
   Does soil allowed to dry between watering? □ Yes □ No
   Does container have drainage holes? □ Yes □ No

11. Recent weather: □ Rainy/wet □ Very dry □ Cold □ Normal/Average

12. Light condition: If outside: □ Full sun □ Light shade □ Heavy shade
   If inside: □ Direct sun □ In-direct sun □ Little or no light

13. Current management practices (give brand, rates, amount used, dates of application):
   □ Fertilizer:
   □ Pesticides:
   □ Weed killer:

14. Recent environmental disturbances:
   □ Soil added or removed □ Construction nearby □ High winds
   □ Gas or sewer leaks □ Frost □ High temperature
   □ Other: __________________________

15. If it is an insect problem, how many insects have you seen? (This applies to every type of pest problem, not just household pests.)
   □ A few (1 or 2) □ Moderate amount (10-20) □ Too many to count

16. How long has the pest been a problem? __________________________

17. Where was the problem seen? (Check all that apply)
   □ Kitchen □ Dining Room □ Living Room □ Bed Room □ Stored Food Products - (cereal, pet food, bird seed)
   □ Basement □ Attic □ Garage □ Around foundation
   □ Closets □ Window Sills □ Porch □ In food
   □ In clothes □ In Rugs □ In Bed □ Other: __________________________

18. Other information that might be useful: __________________________

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