SYSTEMIC APPROACH TO DIAGNOSING PLANT DAMAGE

- I. DEFINE THE PROBLEM (Determine that a "real" problem exists):
 - **a. PLANT IDENTIFICATION and CHARACTERISTICS.** Establish what the "normal" plant would look like at this time of year. Describe the "abnormality": Symptoms & Signs.
 - **b. EXAMINE THE ENTIRE PLANT AND ITS COMMUNITY.** Determine the primary problem and part of the plant where initial damage occurred.
- **II. LOOK FOR PATTERNS:** On more than one plant? On more than one plant species?
 - a. NONUNIFORM DAMAGE PATTERN (scattered damage on one or only a few plant species) is indicative of LIVING FACTORS (pathogens, insects, etc.).
 - **b.** UNIFORM DAMAGE PATTERN over a large area (i.e., damage patterns on several plant species) and uniform pattern on the individual plant and plant parts indicates NONLIVING FACTORS (mechanical, physical, or chemical factors).

III. DELINEATE TIME-DEVELOPMENT OF DAMAGE PATTERN:

- a. Progressive spread of the damage on a plant, onto other plants or over an area with time indicates damage caused by LIVING ORGRANISMS.
- **b.** Damage occurs, does not spread to other plants or parts of the affected plant. Clear line of demarcation between damaged and undamaged tissues. These clues indicate NONLIVING DAMAGING FACTORS.

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