

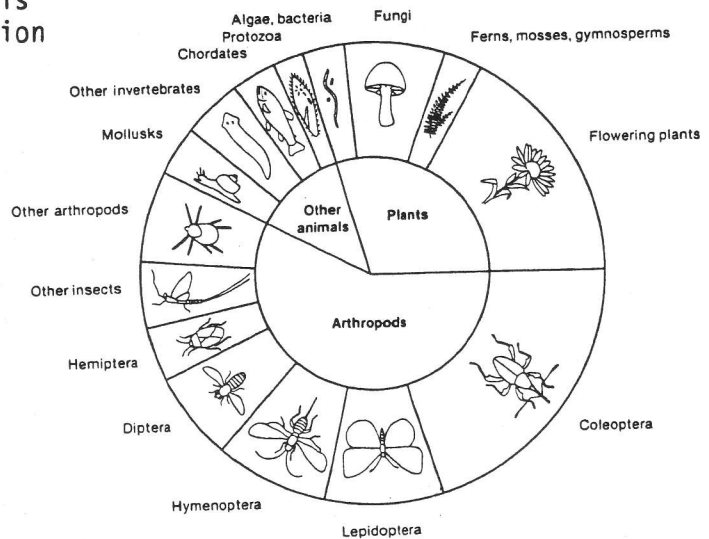
The INSECTS -- An Ecological Impact Statement

Introductory Lecture Outline

- I. The Dominance of Insects
 - A. Number of Species
 - B. Number of Individuals
 - C. Worldwide Distribution

- II. Impact of the Insects
 - A. Economic Damage
 - B. Human Health
 - C. Benefits

- III. Reasons for Success
 - A. Exoskeleton
 - B. Small Size
 - C. Flight
 - D. Metamorphosis
 - E. Fecundity
 - F. Adaptability



Estimating Economic Losses to Insects

$$\text{Cost of Control} = \left(\text{Trmt Cost per Unit} \right) \times \left(\text{Number Units Treated} \right) \times \left(\text{Number of Applications} \right)$$

$$\text{Value of Loss} = \left(\text{Avg. Price per Unit} \right) \times \left(\text{Number of Units of Lost Productivity} \right)$$

$$\text{Value of Damage} = \left(\text{Avg. Price per Unit} \right) \times \left(\text{Percent Devaluation} \right) \times \left(\text{Number of Units Damaged} \right)$$

$$\text{Total Costs} = \left(\text{Cost of Control} \right) + \left(\text{Value of Loss} \right) + \left(\text{Value of Damage} \right)$$