

INSECT COLLECTION

1. Fifty (50) different insects are required. Have represented in your collection 9 different orders. Some of the most common orders are:

Incomplete Metamorphosis

Protura (small, wingless)
Thysanura (silver fish)
Collembola (spring tails)
Ephemeroptera (mayflies)
Odonata (dragonflies)
Orthoptera (grasshoppers)
Isoptera (termites)
Dermaptera (earwigs)
Anoplura (Lice)
Thysanoptera (thrips)
Hemiptera (true bugs)
Homoptera (hoppers-aphids)

Complete Metamorphosis

Neuroptera (lacewings)
Coleoptera (beetles)
Trichoptera (caddisflies)
Lepidoptera (butterflies)
Diptera (flies)
Siphonaptera (fleas)
Hymenoptera (bees, ants)
Plecoptera (stoneflies)

Collect only one praying mantis

2. Suggested Habitants to find insects
Aquatic (streams, ponds)
Dead trees
Garden or orchard
Lawns
House light fixtures
Flowers
3. Non-insect arthropods
A. Crustacea (shrimp, crayfish, sow bug, etc)
B. Chilopoda (centipede)
C. Diplopoda (millipede)
D. Arachnida (scorpion, tick mites, spiders)
4. Preparation - all insects will be:
 - a. Properly positioned and pinned or in alcohol. See handout.
 - b. Each will have a data label that includes the following:
 1. State (UT)
 2. Locality (Orem)
 3. County (Utah Co.)
 4. Date (3 Sept 2006)
 5. Collector (E.O. Wilson)
 - c. Organized according to class and order as listed in number 1 and 3 of this sheet
 - d. Collection in a box with a 1/4 inch bottom that pins will stick firmly in (Styrofoam, cork, etc) and a lid.
 - e. 80% of collection is your own, limited trading is allowed.
5. Preservation of insects after collecting.
 - A. Non insect arthropods, immature insects (larvae) and insects with soft bodies (aphids, caddis flies, spring tails, mayflies, termites etc.) should be placed in alcohol. Many other insects may be kept in alcohol until ready to prepare. Freezing in a plastic container or bag will keep insects pliable until ready to use.
 - B. Moths and butterflies should be placed in a envelope with their wings above them until ready to prepare. Dry insects may be relaxed. We will show you how in class.