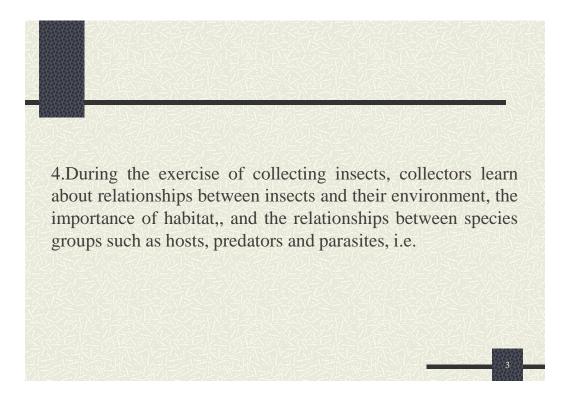


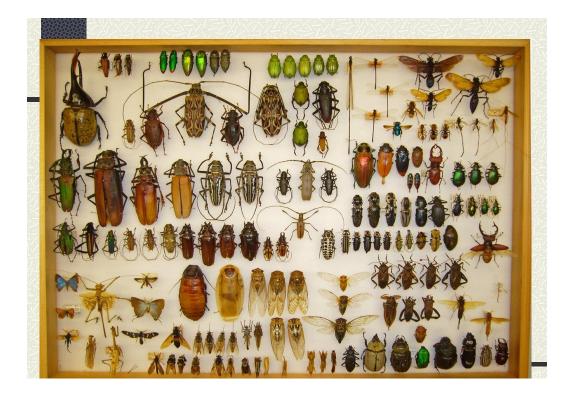
Collection of insects

Why we collect insects?

1.Identification of insects is a specialty within the study of insects based on studies by taxonomists that describe species (e.g., orders, family, genera, etc.). Through collection and preservation efforts, new species are found and described.

- 2.As a hobby and for the enjoyment.
- 3- To see where different insects are found







- A. Air (Aerial survey): e.g. Sweep nets and pheromone traps.
- **B. Vegetative part of plants (Foliage survey):** e.g. direct observation, sweep net and shake cloth.
- C. Soil (Soil survey): e.g. bait traps, Aspirator and sifting.
- **D. Water (aquatic survey):** e.g. dip net and black mesh aquatic insect net.



Equipment and Collecting Methods

• Equipment or appropriate tool

- Forceps, Vials containing alcohol
- Killing jars
- aspirators.
- Notebook
- hand lens





• A small, fine brush for picking up minute specimens.

.Small boxes for storing specimens after their removal from killing jars.

Method or appropriate way

1-picking up insects by hand

The insects are picked up by hand and placed in a container. This method is used for collecting large insects such as beetles, bugs and grasshoppers.

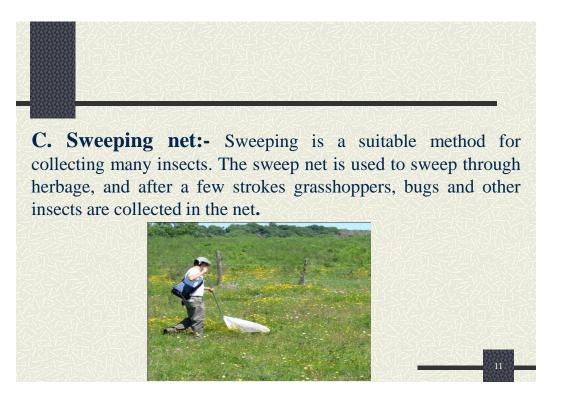


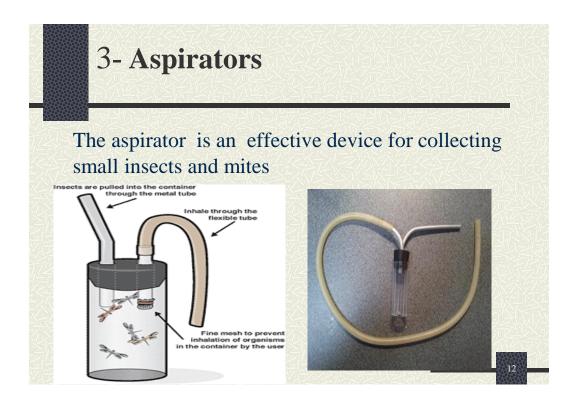


2-Collecting Nets

Collecting nets come in tow basic forms: <u>A.Aerial nets</u> is designed especially for collecting butterflies and other flying insects The general insect net is a light cloth bag hung from a loop that is attached to a handle.







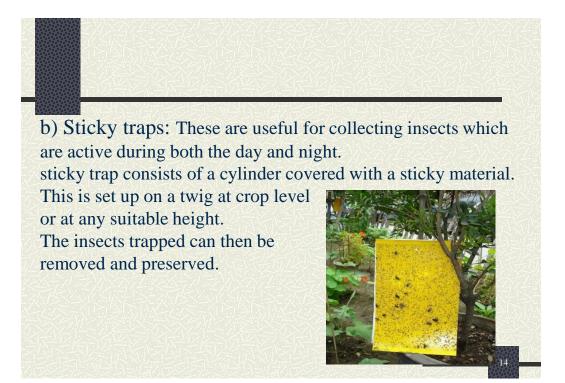
4.Traps

a)light traps With light traps, advantage is taken of the attraction of many insects to a light source



which increasingly active at night





C. Pheromone traps:

A pheromone trap is a type of insect trap that uses pheromones to trap insects. mating pheromones and aggregating pheromones are the most common types used. Pheromone traps are very sensitive, meaning they attract insects present at very low densities. They can be used for control, and monitor



5- Beating: This method is suitable for collecting crawling insects and those which rest on branches.

beating is held under a branch which is then hit sharply with a stick. When a beating tray is not available, an inverted umbrella may be used.





6.Sieve or sifter

Many insects spend all or part of their lives in ground litter debris and leaf mold. These cannot be captured by ordinary collecting methods because they are too active to be caught by hand or they death when they disturbed, a sifter is used to collect them.



Preservation of insects

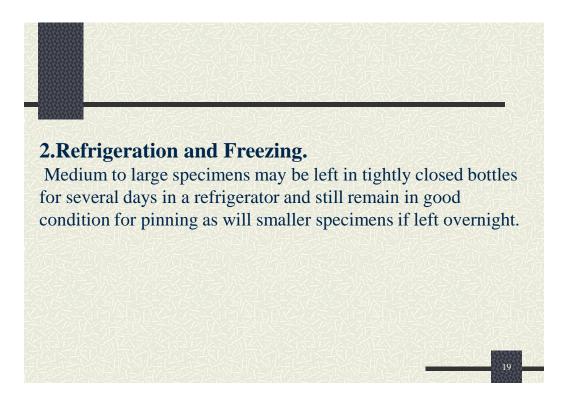
killing insect

After collecting living insects, put in jars. These bottles have different sizes and tight lid, chemicals are added to kill insects.

The most important chemicals used to kill insects Ciano sodium

or potassium

chloroform and ethyl acetate.

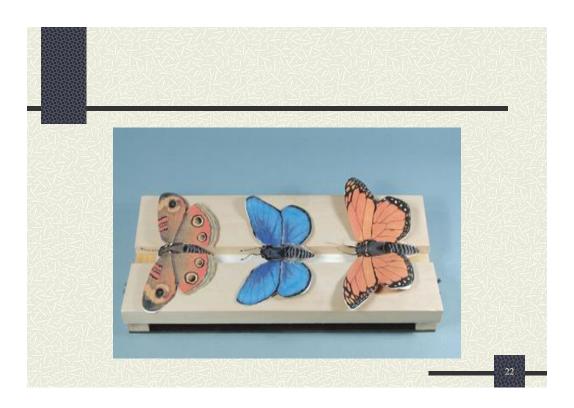


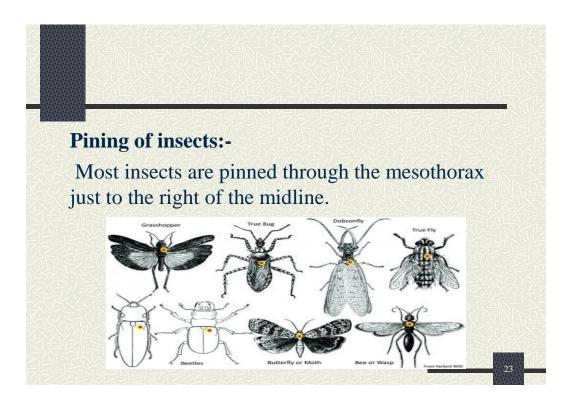


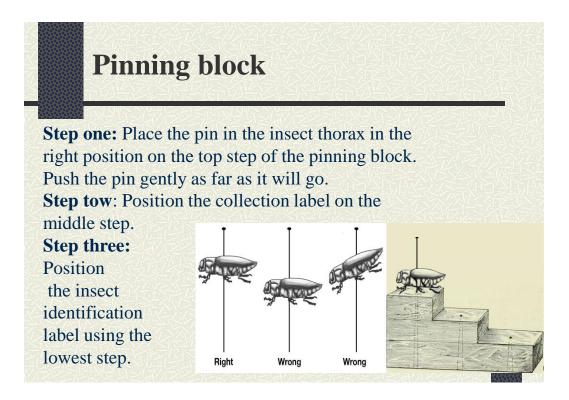
Spreading Board

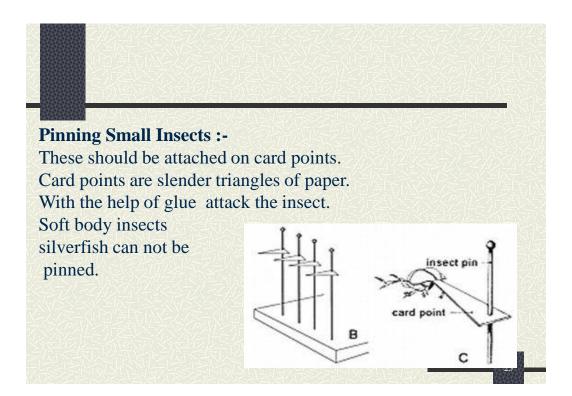
SpreadingBoard.Allbutterfliesandmoths,andsometimesotherinsects,aremountedwiththeirwingsspread.A spreadingboardisthereforeanimportantpieceofequipmentforinsectcollector.withcollectorcollector

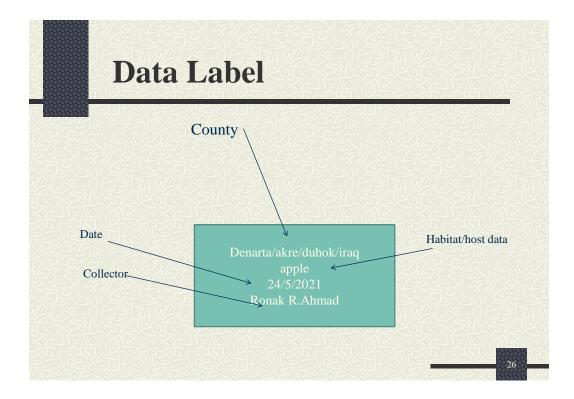












Housing Your Insect Collection



dry, brittle specimens

•Must have a tightly-fitting lid, keeping out pests that will destroy

These are commercially available boxes. Box on right is for permanent museum display or storage

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