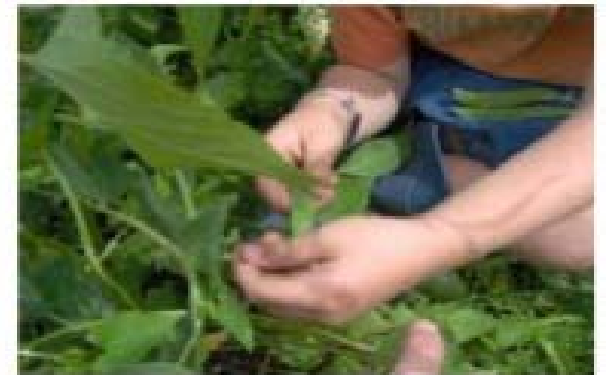




# MECHANICAL CONTROL OF INSECT PESTS

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# MECHANICAL CONTROL

Killing of pests by mechanical action with or without the action of specially designed equipment are termed as mechanical method of insect control. The disadvantage of this method is that it is costly due to manual labour and ineffective on large scale. The method includes:-



# HAND PICKING



Pests can be hand picked if they are easily accessible, large sized, conspicuous, sluggish, present in large numbers and in restricted area.







Field bag is made up of strong cloth bag, two meter long which is supported by bamboo sticks



## HAND-NETS & BAG-NETS



## CONTROL

1. infestation of *pyrilla*, migrating from maize to sugarcane  
2. Rice bugs  
3. Grasshoppers  
4. Red pumpkin beetles.







Small trees are shaken early in the morning in cold season and pests are collected in the jar containing kerosenized water

# JERRING

## CONTROL

1. Locusts
2. Defoliating beetles







# BEATING & HOOKING



Knocking down the locusts with brushes and the house flies with fly flappers is much effective to kill them. The rhinoceros beetle can be picked out from the holes of coconut palm.



#### 4. Sieving

- **Sieving** is used to separate minute particles of different size, passing it through a sieve.
- Different sized sieves are used to separate different types of mixture containing minute particles.
- Sieve is a device containing tiny holes and separates wanted elements from unwanted material.



Sieving



Pebbles and stones are removed from sand by sieving.

### winnowing

**Winnowing** is an agricultural method developed by ancient cultures for separating grain from chaff. It is also used to remove weevils or other pests from stored grain. Threshing, the loosening of grain or seeds from the husks and straw, is the step in the chaff-removal process that comes before winnowing.







# MECHANICAL EXCLUSION



- Pests are physically prevented from reaching the crops. Methods used
- i) windows, ventilators and doors should be screened to keep away the mosquitoes, bugs and house flies.
  - ii) fields should be trenched to save the crops from red hairy caterpillars.
  - iii) fruits of citrus and pomegranate can be saved by wrapping the fruits with butter paper.
  - iv) sticky band around the trunk of trees, a few feet above the ground against the insects that are climbing.





LIGHT TRAPS



# MECHANICAL TRAPS



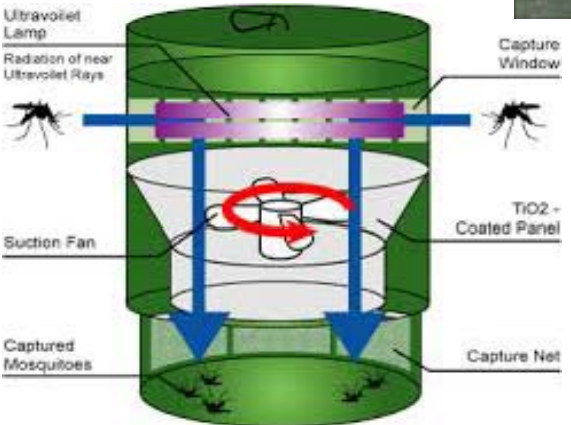
AIR SUCTION TRAPS



CRICKET TRAPS



ELECTRIC TRAPS



Mechanical pest controls should only take up a fraction of  
your control effort.

THANK YOU