

Eco-friendly methods of pest management

Physical Intervention

- Uses a devise for management
- Sugarcane setts-hot water or hot air treatment (scales)
- **Hot water-Plant storage organs roots, bulbs, corns (bulb flies & nematodes)**
- Light traps (White grubs, RHHC etc)
- Flame throwers (Locust)
- **Sticky traps**
- **Bird perches**
- Exposure of stored grains to sunlight (storage pest)
- **Cold storage (Fruit flies, PTM & Pathogens)**

Light Trap



Yellow Sticky trap leaf minor



Bird Perches



Black Drongo Eating Helicoverpa Grownup Larva



Mechanical Intervention

- **Suppression by manual devices: Human Labour**
- **Hand picking & destruction(Egg & Larvae) Eg. *S.litura*, Hairy caterpillar, top borers.**
- **Destruction of fallen & infested fruits (fruit flies and fruit borers)**
- **Destruction of termite mound**
- **Digging of trenches(hairy caterpillar and snails)**
- **Providing metal sheets to tree trunk(rats, squirrels in coconut)**
- **Covering of fruits with paper or polythene bags or nylon nets(Anar butterfly,fruit sucking moths)**
- **Sticky & slippery bands on tree trunk (Mealy bugs, leaf hoppers in mango)**
- **Pruning & destruction of infested and floral parts (Scales, mealy bugs in grape, citrus, ber, fig, custard apple & shoot & fruit borers in bringal)**



Spodoptera on GN

Larval Hatching



Sunflower – Larval Collection Helicoverpa



Shaking of Redgram Plants



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Covering of Whole Plant

Covering of Individual Fruits



Conclusion

- All these technologies and methods discussed so far either
 - ✓ **Agronomic practices**
 - ✓ **Easily adoptable by the farmers**
 - ✓ **Compatible with other methods**
 - ✓ **Cost effective**
 - ✓ **Most important : Eco-Friendly**