

# PESTS OF SUNFLOWER

Centurion University of Technology and Management Shaping Lives...Empowering Communities...

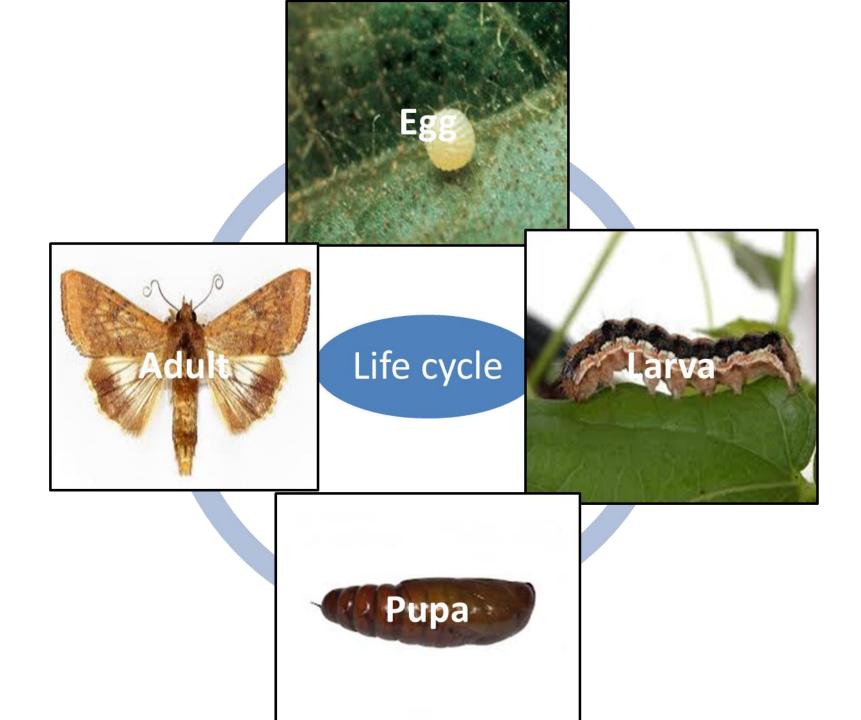
### **LEAF EATING CATERPILLARS** Spodoptera litura, Helicoverpa armigera Noctuidae: Lepidopter

- They are polyphagous pests. Caterpillars eat leaves and soft portions of the stems.
- *H. armigera* feeds on foliage and tender flower heads and developing seeds. In severe cases there will be Plants without leaves.
- Their life histories, damage and management have been detailed under cotton pests.
- Dusting leaves and flower heads with methyl parathion 2D or spraying with quinalphos 2 ml/l or thiodicarb 1 g/l or acephate 1.5g/l or endosulfan 2 ml/l is effective.



## Head borer damage

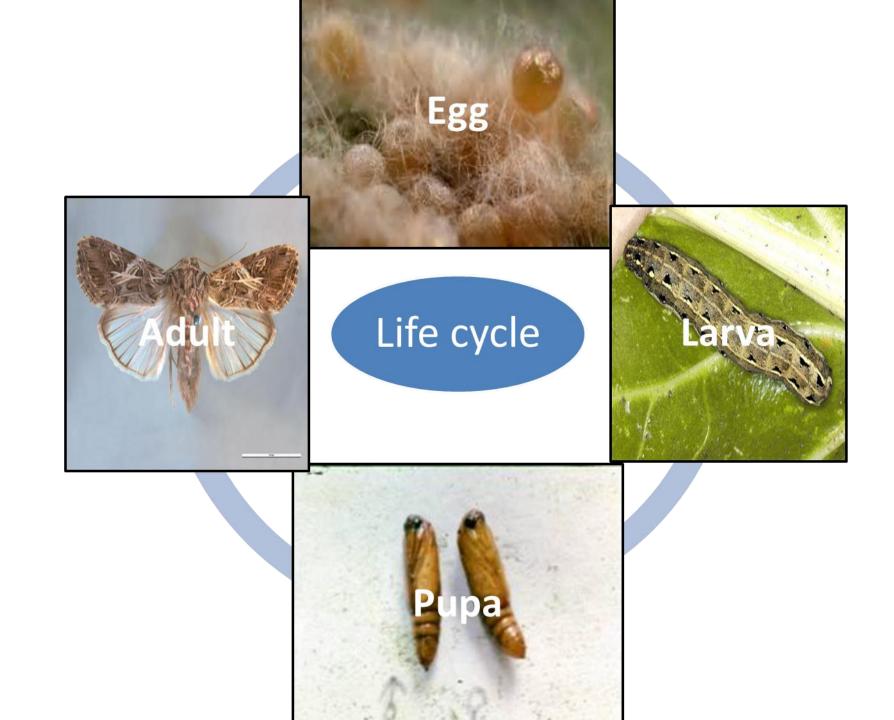








S. litura damage



#### **LEAFHOPPER**

*Amrasca biguttula biguttula* Cicadellidaea: Hemiptera

- Greenish yellow adults, pale greenish, transluscent nymphs suck sap from undersurface of leaves injecting toxins which result in curling of leaves and ultimately hopper burn symptoms.
- Leaves dry up and drop down.
- Seed treatment with imidacloprid 5 g/kg seed or foliar sprays with monocrotophos 1.6 ml/l or dimethoate 2 ml/l or endosulfan 2 ml/l are recommended.



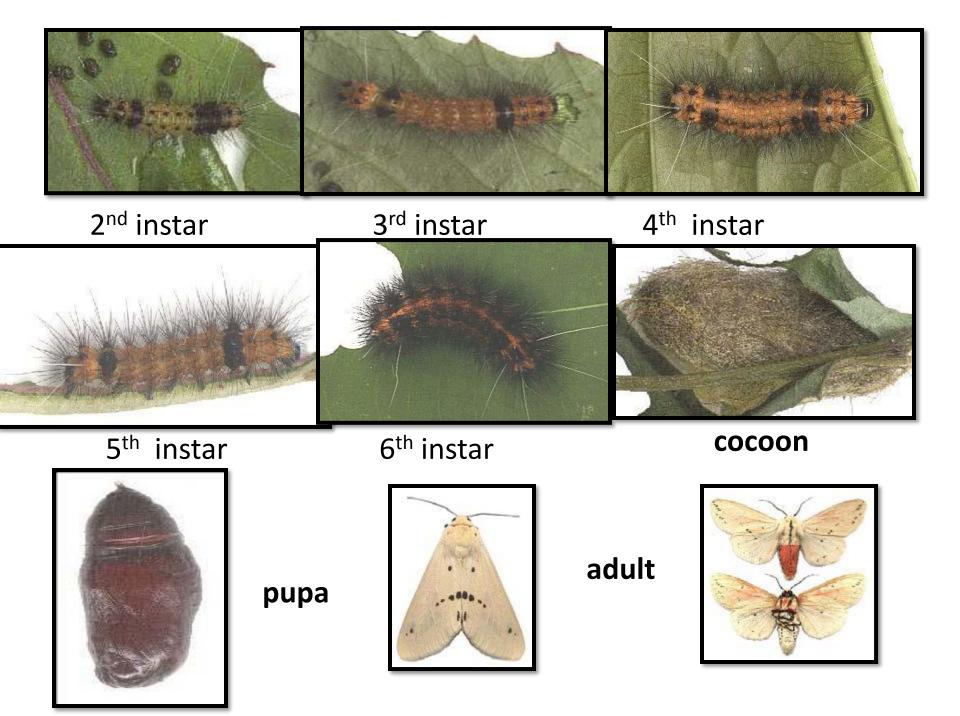
#### **BIHAR HAIRY CATERPILLAR** Spilosoma obliqua Arctiidae: Lepidoptera

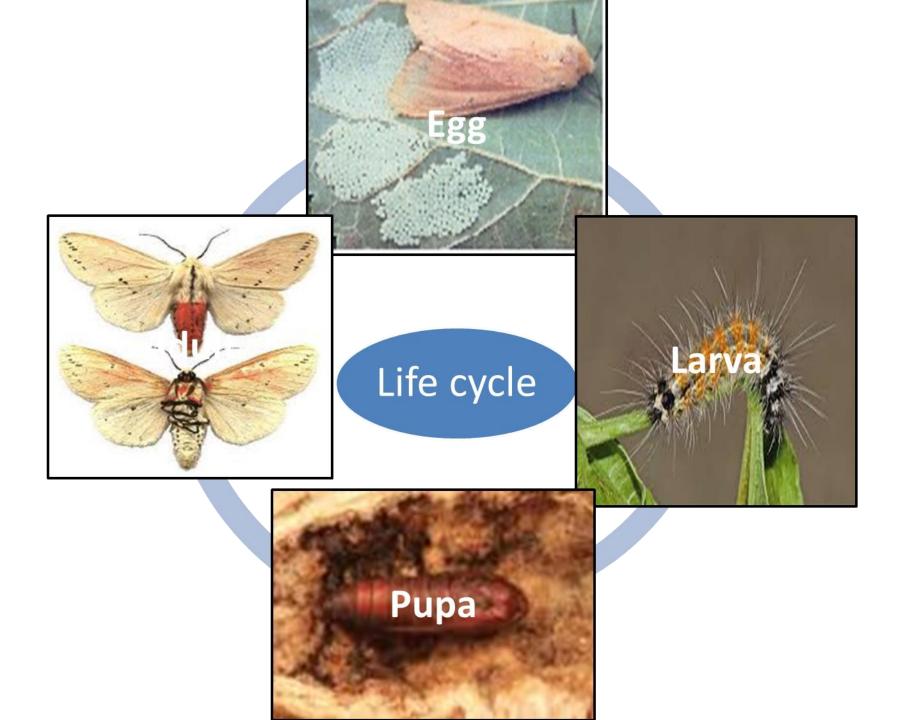
### **APPEARANCE**

- ✓ The adult is dull yellow with oblique line of black dots on hind wings. The dorsal side of the abdomen is red with dull yellow ventral side
- ✓ The full grown larva is darkened with yellowish brown abdomen having numerous pale white brown and black hairs and measures about 43 mm

#### **LIFE HISTORY**

- The larva defoliates the plants and move from one field to another.
- It pupates in soil







Larvae feed gregariously under surface of the leaves



Drying up of infected leaves

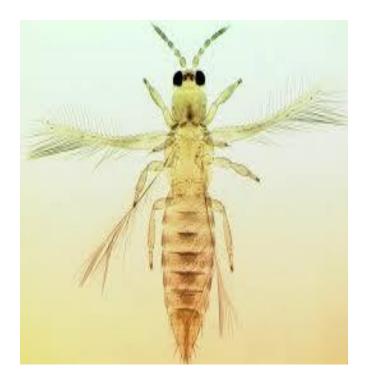
#### MANAGEMENT

• Collection and destruction of egg masses and gregarious larva, application of NSKE 5 % and foliar sprays particularly for grown up larva with endosulfan 2 ml/l or chlorpyriphos 2 ml/l or dichlorvos 1 ml/l are effective measures

#### THRIPS

#### Scirtothrips dorsalis Frankliniella dampfii Thripidae: Thysanoptera

- *S. dorsalis* infests lower surface of leaves which curl as a consequence, while *F. dampfii* damages capitulum and floral parts.
- Seed treatment with imidacloprid 5 g/kg seed is a better option for conservation of natural enemies. Foliar sprays with monocrotophos 1.6 ml/1 or imidacloprid 4 ml/101 two or three times are effective measures



# THANK YOU

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