

Entomology Sample Notes for IBPS AFO Mains & Interview Course By agriguru.in



**This Is Sample Notes Of Entomology This
Contain Only Some Important Points.**

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Insects-Pests of Major Field crops

Insects-pests of Rice



Insect-pest	Scientific name	Family: Order	Damage symptoms	Remark
Stem Borer	<i>Scirpophaga incertulas</i>	Pyralidae: Lepidoptera	Larvae causes dead hearts on central shoots of paddy seedlings and tillers White ears (devoid of grains)	Monophagous/ absolute pest. Hibernate in rice stubbles. Pupate inside the stem. Adult are dirty white or greenish yellow front wings. Management: Clipping and burning of leaf tips. Cartap hydrochloride 4G @2.5kg a.i./ha. Egg parasitoid: <i>Trichogramma japonicum</i>

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Insect- pests of pulses



Insect-pest	Scientific name	Family: Order	Damage symptoms	Remark
Gram pod borer	<i>Helicoverpa armigera</i>	Noctuidae: Lepidoptera	Caterpillar feeds foliage when young, and in later stages on buds, flowers and pods. Circular bore holes on pulse pods plugged by the head of a larvae.	Polyphagous and cosmopolitan in nature. Larvae pupate in soil. Mixed/intercropping with barley, wheat, mustard. Use of light trap and pheromone trap.

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Insect-Pests of Citrus



Insect-pest	Scientific name	Family: Order	Damage symptoms
Psylla	<i>Diaphorinacitri</i>	Psyllidae: Hemiptera	Vector of Greening disease.
Leaf minor	<i>Phyllocnistiscitr ella</i>	Gracillariidae: Lepidoptera	Vector of citrus canker. Zig-zag leaf mines in citrus leaves. Lay eggs along the midrib of tender leaves.

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Insect-pests of Brinjal



Insect-pest	Scientific name	Family: Order	Damage symptoms
Fruit & shoot borer	<i>Leucinodes orbonalis</i>	Pyralidae: Lepidoptera	Dead hearts in young plants, tender growing shoots killed by larvae and later bore into fruits,
Hadda beetle	<i>Epilachna vigintioctopunctata</i>	Coccinellidae: Coleoptera	Grubs and adult produce streaks.

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Pest Management



Categories of pest

- **Key pest:**

- ✓ Most severe and damaging pest.
- ✓ GEP lies well above the DB and EIL.
- ✓ E.g. Cotton bollworm, DBM, gram pod borer.

- **Major pest:**

- ✓ GEP is close to EIL but economically damage avoided by time intervention.
- ✓ Sucking pests of cotton and rice.

- **Minor pest:**

- ✓ GEP lies below EIL and Damage boundary.
- ✓ Thrips, mites and sugarcane mealy bug.

- **Regular pest:**

- ✓ Affect seasonal crops like cereals, pulses, fruits etc.
- ✓ E.g. Rice stem borer

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Important points



The word **entomology** derived from **Greek** words:

- ***Entomo*** –Insect
- ***Logos***- Discourse

➤ NPV is mostly used to control: ***Lepidopteran insects***

➤ Bud necrosis in groundnut is transmitted by: ***Thrips***

➤ **Binomial nomenclature** was first given by: ***C. Linnaeus***

➤ The scientific name of maize stem borer is: ***Chilo partellus***

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Types of larva:

- **Nymph:** Hemiptera (bugs, white fly, aphids and jassids).
- **Caterpillar:** Lepidoptera (moths, bollworms, borers)
- **Grub:** Coleoptera, and Hymenoptera
- **Maggot: Diptera** (all true flies)

➤ Types of mouth parts:

- Biting and Chewing type: **Grasshoppers, locust, beetles, larval Lepidoptera**
- Piercing and sucking type: **Mosquito, aphids, bugs, leafhoppers**
- Sponging type: **House fly**
- Siphoning type: **Butterfly, moths**
- Chewing and lapping type: **Honey bee**
- Rasping and sucking type: **Thrips**