

1. Crop Pests Images – Agricultural Science and Polic...

Crop Pests Images – Agricultural Science and Policy II

Tufts Friedman School of Nutrition Science and Policy

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2. Pests of Cotton

Pests of Cotton



Source: NAL, USDA

Boll weevil monument,
Enterprise, Alabama



Source: ARS

Boll weevil



Source: ARS

Bollworm



Source: FAO-EU
IPM Program

Thrips



Source: ARS

Tobacco Budworm



Source: FAO-EU
IPM Program

Aphids



Source: ARS

Beet Armyworm



Source: ARS

Plant bug

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3. Pests of Corn

Pests of Corn



Corn earworm

Beet armyworm

Corn Rootworm adult

Fall armyworm

Wireworm beetle

Source: Phil Sloderbeck, Department of Entomology, Kansas State University.
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4. Pests and Diseases of Citrus

Pests and Diseases of Citrus



Source: ARS

Mexican Fruit Fly

Source: Graham and Timmer, UFL / IFAS

Phytophthora root rot

Source: USDA

Citrus Canker

Source: Childers and Fasulo, UFL / IFAS

Citrus Red Mite

Source: Futch, McCoy and Childers, UFL / IFAS

Fern Scale

Source: ARS

Glassy Winged Sharpshooter

In the public domain.

5. Pests and Diseases of Potato

Pests and Diseases of Potato



Source: ARS

Colorado potato beetle



Source: CIP

Late blight



Source: CIP

Bacterial wilt



Source: CIP

Leaf miner fly

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6. Insect Life Cycle

Insect Life Cycle



Adult moth



Egg mass on corn leaf



Pupa



Larvae

Studying Insect Life Cycle for Better Pest Management, E.g., European Corn Borer

Source: Phil Sloderbeck, Department of Entomology, Kansas State University, In the public domain.

7. Utility of Conserving Natural Enemies for Pest Management

Utility of Conserving Natural Enemies for Pest Management



Diapetimorpha introita wasp preparing to lay an egg in the pupal tunnel of corn ear worm



A green lacewing larva dines on whitefly nymph



Lady beetle devours a pea aphid.



Aleiodes indiscretus wasp parasitizing a gypsy moth Caterpillar, a major forestry species pest
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8. A few Integrated Pest Management (IPM) methods

A few Integrated Pest Management (IPM) methods



Trap crops – of squash to lure cucumber beetles from the main crop of melon



Alternatives to pesticides – technicians spray cotton with a fine mist of vegetable oil and dishwashing detergent.



Pheromone traps - managing boll weevil in cotton.



Biological control - *Diorhabda Elongata*, the leaf beetle, the first approved agent in US



Deep plowing and destroying alternate hosts



Judicious use of safe pesticides

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9.

Sources

Sources

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