

Major Pest and Insects of Okra with their Control

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Okra *Abelmoschus esculentus* (L.) Monech is commonly known as Bhindi or lady's finger etc, which belongs to family Malvaceae. Okra is an export-oriented crop and usually contributes 61.9% of the total fresh vegetables export. India ranks second in terms of vegetable production in the world 185.88 million ton and first in okra production which is about 62% of the world.

Major insects pest

1. Shoot and fruit borer: *Earias vitella*, *E. insulana*

Symptoms of damage: Terminal shoots wither and droop, Shedding of buds and flowers, Borehole in fruits and fee, Deformed fruits

Control measures: Neem oil (Azadirachtin 0.03% WSP (300 ppm))3-5 ml/1 liter water or proclain (Emamectin benzoate 5% SG) 0.5gms/1 liter of water or Ekalux (Quinalphos 25 % EC) 2 ml /1 liter of water



2. Leaf roller: *Sylepta derogata*

Symptoms of damage: Caterpillar rolled the leaves, Scrapping the chlorophyll content and feeding inside, Defoliation

Control measures: Sumitomo Meothrin(Fenpropathrin 30% EC) 0.5ml/1 liter of water or Coragen (Chlorantraniliprole 18.5 % W/W)0.4 ml / 1 liter of water or Ekalux (Quinalphos 25 % EC) 2 ml /1 liter of water



3. Semilooper: *Anomis flava*

Symptoms of damage: Caterpillar fed on the leaves, Defoliation

Control measures: Coragen (Chlorantraniliprole 18.5 % W/W)0.4 ml / 1 Liter of water. Or Rogor or tafgor(Dimethoate 30% EC)1-2 ml/1 liter of water.



4. Whitefly: *Bemisia tabaci*

Symptoms of damage: Chlorotic spots on the leaves later coalesce forming irregular yellowing of leaf tissue, Severe infestation results in premature defoliation, Development of sooty mold, Vector of yellow vein mosaic virus

Control measures: Confidor(17.8% imidacloprid)0.05-0.1 milliliters/1 liter of water. Or Lancer gold (Acephate 50 % + Imidacloprid 1.8 % SP)2gm/1 liter of water or Solomon(Beta-Cyfluthrin + Imidacloprid 300 OD (8.49 +



19.81 % w/w)0.1-0.25 milliliters/1 liter of water.

5. Aphid: *Aphis gossypii*

Symptoms of damage: Infesting tender shoots and under the surface of the leaves. Curling and crinkling of leaves, Stunted growth, Development of black sooty mold due to the excretion of honeydew



Control measures: Anshul Ikon Or TATA MANIK (Acetamiprid 20% SP) 0.5 gm/liter or Karate(Lambda-cyhalothrin 5% EC)2ml/1 liter of <http://eagri.org/eagri50/ENTO331/lecture23/okra/water> or keefun(Tolfenpyrad 15%ec) 1.5-2 ml/1 liter of water

6. Jassids: *Amrasca devastates*

Symptoms of damage: Tender leaves become yellow, The margin of the leaves start curling downwards and reddening sets in, In the case of severe infestation leaves get a bronze which is typical “hopper burn” symptom, The margins of the leaf get broken and crumble into pieces when crushed, The leaves dried up and shed and the growth of the crop was regarded.



Control measures: Syngenta Curacron Insecticide(Profenofos 50% EC)1.5 - 2.5 ml /1 liter of water or Syngenta Pegasus (Diafenthiuron 50% WP)0.5 gm - 1 gm /1 liter of water.

7. Shoot weevil: *Alcidodes affaber*

Symptoms of damage: Grub feed on the stem and galls are formed in the stem and petiole, Adults feed on leaf buds and terminal shoots



Control measures: Karate(Lambda-cyhalothrin 5% EC)2ml/1 liter of water or Nagarjuna Profex Super Insecticide(Profenophos 40% + Cypermethrin 4%)2ml/1 liter of water

8. Stem weevil: *Pempherulus affinis*

Symptoms of damage: Grub feed on the stem and galls are formed in the stem and petiole, Adults feed on leaf buds and terminal shoots



Control measures: Karate(Lambda-cyhalothrin 5% EC)2ml/1 liter of water or Nagarjuna Profex Super Insecticide(Profenophos 40% + Cypermethrin 4%)2ml/1 liter of water

References

1. <https://www.agriplexindia.com/blogs/featured/management-of-major-insects-of-okra-bhendi>
2. <http://eagri.org/eagri50/ENTO331/lecture23/okra/>