



Eco-friendly Management of White Fly

Sonu* and Mohit Kumar

Department of Entomology, Sri
Dev Suman Uttarakhand
University, Badshahitol, Tehri
(Garhwal)



Open Access

*Corresponding Author

Sonu*

Article History

Received: 27. 10.2022

Revised: 8. 11.2022

Accepted: 15. 11.2022

This article is published under the
terms of the [Creative Commons
Attribution License 4.0](https://creativecommons.org/licenses/by/4.0/).

INTRODUCTION

Whiteflies are one of the most economically important groups of plant-feeding insects. They are found in every continent except Antarctica, and there are an estimated 7500 species worldwide. Whiteflies damage plants by piercing their leaves and sucking out the sap. This feeding process not only weakens the plant but also provides an entry point for plant viruses. The management of whiteflies has traditionally been achieved through the use of broad-spectrum insecticides. However, the overuse of these chemicals has led to the development of resistance in whitefly populations and has had negative impacts on non-target organisms, such as bees. As a result, there is a need to find more eco-friendly methods of whitefly management.



Effect of white fly on tomato production

The whitefly is one of the most serious pests of tomatoes. It damages the plant by feeding on the sap, which reduces growth and fruit production. Whiteflies also produce honeydew, which encourages the growth of sooty moulds. These reduce the plant's ability to photosynthesise, further reducing growth and yield.

To minimise the impact of whiteflies on your tomato crop, it's important to practise good garden hygiene and use eco-friendly management techniques.

Destroy whitefly-infested plants as soon as possible to prevent them from spreading to healthy plants. Regularly check your plants for signs of infestation and act immediately if you see any whiteflies.

Encourage natural predators of whiteflies in your garden, such as ladybirds and lacewings. You can also buy beneficial insects from gardening stores.

Make sure you don't use any pesticides that will kill these helpful predators – only use products that are specifically designed to target whiteflies. Apply insecticides according to the manufacturer's instructions and always follow safety precautions.

Eco-friendly management of white flies in tomato

Whiteflies are tiny, sap-sucking insects that can wreak havoc on your tomato

plants. They spread diseases and cause leaves to yellow and wilt. If not controlled, whiteflies can quickly decimate a tomato crop. Fortunately, there are a number of eco-friendly ways to manage whiteflies. Here are some tips:

- Inspect your plants regularly for signs of whiteflies. Look for white, winged adults and nymphs on the undersides of leaves.
- Remove infested leaves and dispose of them in the trash.
- Encourage natural predators of whiteflies such as ladybugs, green lacewings, and parasitic wasps. You can do this by planting flowers that attract these beneficial insects or by purchasing them from a garden centre.
- Use an organic insecticide such as neem oil or pyrethrin if other methods fail to control the problem. Be sure to follow the instructions on the product label carefully.