

Destroying of pests using chemical pesticides.

Tonky Noor*

Department of Botany and Plant Pathology, Oregon State University, Corvallis, USA

Abstract

Pesticides are generally agents or anything that can kill pests. Pests are any creatures, whether they be plant or animal, that harm humans or the businesses that depend on them, such as farms, ranches, and other businesses that provide food. Man has to fight these pests constantly if he wants to live a healthy life and keep his reliance on the food supply. Chemical pesticides are the substances that either eliminate or deter these pests.

Keywords: Pests, Biological insecticides, Pesticides, Bacteria, Nematodes.

Introduction

Organisms that might result in crop losses are common pests in agriculture. They might be insects, birds, nematodes, fungi, bacteria, viruses, or nematodes. Pests can be killed using chemical, natural, organic, or biological insecticides. Chemical pesticides are used to control and eradicate pests throughout the life cycle of crops. The developer's or manufacturer's labels, which they include with the pesticides, must be followed when applying the pesticides [1].

Chemical pesticides are substances applied to destroy pests. Plant insects such as thrips, aphids, whiteflies, mites, beetles, larvae, and others can be pests. Rodents, disease-carrying organisms including fungi, bacteria, and viruses, which result in significant losses in agricultural crops, are also killed by chemical pesticides. Pesticides are divided into insecticides, fungicides, miticides, nematicides, rodenticides, herbicides, defoliant, and plant growth regulators based on the pests they are intended to control [2].

Pests that are harmful to plants are killed with chemical insecticides. They are dangerous and toxic. Therefore, the product label must be carefully read and followed while using a chemical pesticide. The toxicity may be decreased if the safety interval is kept between using and ingesting. It is not safe unless and until the label specifically states that it is safe [3].

To destroy a specific pest, chemical pesticides are advised in single doses. It is generally not advised to use pesticides in combination. However, certain pesticide classes may work well together. For example, an insecticide may work well with a fungicide, bactericide, or plant growth regulator. This kind of information is provided on the pesticides' labels, which must be strictly adhered. Chemicals called pesticides are compounds used to eradicate pests. A pesticide is, generally speaking, a substance that repels, renders ineffective, or kills pests, such as a chemical or a biological agent such a

virus, bacteria, antimicrobial, or disinfectant. Because of how frequently pesticides are used, the terms "pesticide" and "plant protection product" are frequently used interchangeably. It is frequently applied to get rid of or manage a wide range of agricultural pests that can harm livestock and crops and lower farm output. Insecticides to kill insects, herbicides to kill weeds, rodenticides to kill rodents, and fungicides to manage fungi, mould, and mildew are the pesticides that are most frequently used. [4].

When used in the field, chemical pesticides cause environmental pollution. Although their impacts are transient, if they stay in the ecosystem they could start to cause dangerous environmental and health issues. Chemical pesticides may spread outside of the intended area when they are sprayed on crops. When pests need to be kept away from plants, repellents are utilised in agriculture. Repellants are quite effective in situations where extermination is not intended. The disadvantage is that repellents need to be sprayed more frequently, especially after water has been applied to the plants, like after a rain [5].

Conclusion

While non-repellent pesticides kill the bug but are frequently more toxic and contaminate both the soil and the crops frequently beyond the recommended levels, repellents have a much quicker effect in terms of crop preservation but don't address the root of the infestation.

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*Correspondence to: Tonky Noor, Department of Botany and Plant Pathology, Oregon State University, Corvallis, USA, E-mail: noor@tonky.edu.in

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