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**INSECT PEST CONTROL WITH THE HELP OF SPIDERS IN THE ORANGE FIELDS OF WARUDTAHSIL,  
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**ABSTRACT :**

*Spiders are one of the most diverse animal groups in the World. Order Araneae is a large group of animals, which is commonly called as Spiders. Spiders are the creature which present in everywhere. Spiders are among the most abundant insectivorous predators of Terrestrial ecosystem. Spiders play a major role as bio-control agents of insect pests in all habitats. Spiders are carnivorous creature. Spider plays an important role in regulating insect pests in the Orange Fields. Considerably insect populations increases when release from predations by spiders. They are widespread and found in all types of habitats. They mostly feed on small insects, even though they may also feed on various large insects. Pesticides use is harmful and costly in Orange fields so now a day's spiders are use as natural and safe pest control agent in Orange fields. Spider's predatory capacity can have an effect in decreasing densities of insect pests, when they are used to balance the effect of insecticides and Pesticides.*

*If pesticides are avoided, spiders can consistently take shelter in the fields, feed on the pests and increase the productivity. The constant use of a wide range of pesticides has caused many side effects, like the problem of secondary pests, loss of biodiversity and Environmental Pollution. Spiders eat a large number of small creatures. During the survey in 2018-19, I have reported 131 Species belonging to 18 Families and 63 Genera of Spiders in Orange fields of WarudTahsil, District Amravati, Maharashtra State. Spiders of Families Araneidae, Clubionidae, Corinnidae, Eresidae, Gnaphosidae, Hersilidae, Linyphiidae, Lycosidae, Miturgidae, Oxyopidae, Philodromidae, Salticidae, Scytodidae, Sparassidae, Tetragnathidae, Theridiidae, Thomisidae and Uloboridae were recorded during the investigation.*

*Some spiders are the most effective Pests control agents. Spiders are important Predatory group of biological control agents. Spiders are friends of farmer.*

**KEYWORDS :** *Insect Pest, Orange fields, Spiders.***INTRODUCTION**

Spiders are one of the most diverse animal groups in the World. Spiders are the creature which present in everywhere. Spiders are among the most abundant insectivorous predators of Terrestrial ecosystem. Spiders play a major role as bio-control agents of insect pests in all habitats. Spiders are one of the most diverse animal groups in the World. Spiders are carnivorous creature. Spider plays an important role in regulating insect pests in the Agricultural Ecosystem. There are 42,339 spiders species are found all over the world in almost every kind of habitat.

Spiders mostly feed on insects, even though they may also feed on various other kinds of creatures. Considerably insect populations increases when release from predations by spiders. They are widespread

and found in all types of habitats. They are beneficial to human beings in the sense that they feed mostly on the pests of orange fields. A particular spiders as the giant crab spider has been known as an effective in controlling large insects and other insect pests found in the orange fields. Predatory arachnids such as spiders are an important group of biological control agents. The population densities and species abundance of spider communities in Orange fields can be as high as in natural ecosystems. Many uses of parasitic and predatory natural enemies to control Orange pests have been reported. They have usually been treated as an important biological control agent, because there isecological role of spiders in pest control. Use of chemical pesticides has killed natural predators in the Orange fields and also disturbing the natural fauna. Several toxic insecticides and pesticides are recommended to control pests in Orange fields. These chemicals insecticides and pesticides are destroying the vegetation.

#### **MATERIAL AND METHOD:**

A survey of Spiders was carried out in Orange Fields of Warud Tahsil, District Amravati during 2018-19. Spiders were collected from different areas of Orange Fields. For collection of spiders, Pit fall trapping, Direct searching, Collected Spiders by Insect nets, Beating of steak and Umbrella method were used. The Spiders Specimens were identified according to Kaston spider book. The photographs were taken in different views, to get the clear eye position, shades of cephalothorax and abdomen, spines and hairs pattern. The constant use of a wide range of pesticides has caused many side effects, the problem of secondary pests, the recovery of insect pests and Environmental Pollution. Spiders consume a large number of small creatures and do not injure vegetation. Spiders can not disturb natural vegetation.

#### **Observation and Result:**

During the survey in 2018-19, I have reported 131 Species belonging to 18 Families and 63 Genera of Spiders in Orangefields of Warud Tahsil, District Amravati, Maharashtra State. Spiders of Families Araneidae, Clubionidae, Corinnidae, Eresidae, Gnaphosidae, Hersilidae, Linyphiidae, Lycosidae, Miturgidae, Oxyopidae, Philodromidae, Salticidae, Scytodidae, Sparassidae, Tetragnathidae, Theridiidae, Thomisidae and Uloboridae were recorded during the investigation. For details I have arranging the data in a Table Format of systematic way.

<b>Sr. No.</b>	<b>Family</b>	<b>Genera</b>	<b>Species</b>
01	Araneidae	10	21
02	Clubionidae	01	02
03	Corinnidae	01	02
04	Eresidae	01	03
05	Gnaphosidae	06	13
06	Hersilidae	02	05
07	Linyphiidae	07	16
08	Lycosidae	08	17
09	Miturgidae	02	04
10	Oxyopidae	05	09
11	Philodromidae	02	03
12	Salticidae	09	17
13	Scytodidae	01	02
14	Sparassidae	01	02
15	Tetragnathidae	01	02
16	Theridiidae	02	03
17	Thomisidae	03	08
18	Uloboridae	01	02
<b>Total</b>		<b>63</b>	<b>131</b>

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**CONCLUSION:**

Spiders are used to balance the effect of insecticides and Pesticides. Spider's predatory capacity can have an effect in decreasing densities of insect pests. Some spiders are among the most effective predators of caterpillars and other pests. Some Spiders and Spider lings are main control agents of aphids. Due to destroying the pest or insects, spiders are friends of farmer. Most spiders feed on insects, productivity of Oranges gets increased. Spiders are important Predatory group of biological control agents. Spiders are important insect pests control in Orange Fields.

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