

Diversity and Distribution of Agricultural Insect Pest in Some Selected Areas of Indapur (Pune) and Phaltan (Satara) Tehsil, Maharashtra, India

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Abstract: A survey was conducted to investigate the agricultural insect pest diversity in Indapur and Phaltan Tehsil. The actual survey was carried out during 15 Sep. 2020 to 15 March 2021. Throughout study period, total 25 species of agricultural insect pests were collected & identified from 29 different sampling sites of 7 villages. They are belonging to 4 orders that is Orthoptera, Hemiptera, Coleoptera and Lepidoptera, while included in 12 families that is Gryllidae, Gryllotalpidae, Acrididae, Tettigoniidae, Pyrgomorphidae, Pentatomidae, Pseudococcidae, Coreidae, Chrysomelidae, Scarabaeidae, Cupedidae, and Sphingidae. The reported species were recorded from different habitat like Agricultural field, Residential area, Water Reservoirs, Woodland & Forest, Thorny Scrub and Grassland area. According to IUCN Red list, 1 species is critically Endangered, 2 species are Endangered, 1 species is Vulnerable, 5 species are Near Threatened, 14 species are Data deficient, and 2 species are Least Concern. The insect pest cause on an average 15 – 20% yield losses in food and cash crops. Due to heavy of Insecticides use in agricultural field, the natural biocontrol agent's numbers are drastically declined in study area. Suggestions for future improvement include, Integrated Pest Management (IPM) program through the ecological pest management practices.

Keywords: Diversity, Distribution, Agricultural Insect Pest, Indapur, Phaltan, etc.

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