RESEARCH ARTICLE

POLLINATORS DIVERSITY THROUGH COLOURED PAN TRAPS ON MUSTARD

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**All India Coordinated Research Project on Honey Bees and Pollinators*
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Abstract: The study was undertaken at Raj Mohini Devi College of Agriculture and Research Station, Ambikapur during 2019-20 for diversity of insect pollinators/ visitors in mustard ecosystem. Different insect pollinators/ visitors i.e. *Apis dorsata, A. indica, A. melifera, Syrphus ribesii, Musca domestica, Lasius niger Monomorium minimum* and *Coccinella septempunctata* were recorded in different fluorescent colored pan trap i.e. White, yellow and blue at different flowering period onset of bloom, full bloom and end of bloom of mustard at the onset of bloom maximum insect pollinators/visitors were recorded in blue pan traps (13.2 insect/trap) with mean (1.46 insect/trap) followed by in white coloured pan trap (11.03 insect/trap) with mean (1.22 insect/trap) and minimum in yellow pan trap (10.36 insect/trap) with mean (1.15 insect/trap) however, during full bloom period highest insect pollinators/visitors were observed in yellow pan trap (27.55 insect/trap) with mean (3.06 insect/trap) followed by in blue fluorescent coloured pan trap (21.82 insect/trap) with mean (2.42 insect/trap) and minimum population was recorded in white coloured pan trap (20.13 insect/trap) with mean (2.23 insect/trap). Similarly at the end of bloom maximum population was recorded in yellow fluorescent coloured pan trap (17.85 insect/trap) with mean (1.98 insect/trap) followed by white fluorescent coloured pan trap (16.22 insect/trap) with mean (1.80 insect/trap) and lowest in blue coloured pan trap (16.17 insect/trap) with mean (1.79 insect/trap).

Keywords: Colored pan traps, Mustard, Pollinator, Visitor diversity

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