

STUDY ON THE SEASONAL INCIDENCE OF MUSTARD APHID (*LIPAPHIS ERYSIMI* KALT.) IN RELATION TO WEATHER PARAMETERS

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Abstract: The aphid incidence and its correlation with weather parameters were studied at college of Agriculture and Research Station, Raigarh, Chhattisgarh during the Rabi 2013-14 and 2014-15 crop seasons. Mustard variety “Pusa bold” was used as test crop. This study will provide an opportunity to fact the pest challenge by manipulating the manageable ecological parameters in the form of planting to harvesting time adjustment, varietal election, correct time of pesticide application, etc. The aphid appearance of mustard aphids were observed on January 2nd & 5th 2013-14 & 14-15 and disappeared after mid March. The peak period of aphid population was found at 5th to 9th SMW 114.41 to 318.01 aphid/plant during Rabi 2013-14 and 113.92 to 314.52 aphid /plant during 2014-15. The correlation coefficient (r) showed a non-significant negative effect with maximum and minimum temperature whereas relative humidity showed non-significant positive effect.

Keywords: Mustard, Aphid, *Lipaphis erysimi*, Population, Humidity, Temperature

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