

SEASONAL INCIDENCE AND NATURAL ENEMIES OF LAC INSECT (*LACCIFER LACCA*) IN KORBA

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Abstract: The seasonal incidence of natural enemies of lac insect was carried out on Rangeeni lac during 2019-2020 at Kerajhariya Village, Pali block, Korba District of Chhattisgarh. Natural enemies of lac viz. *Eublema amabilis* and *Pseudohyapatopa pulverea* recorded as key or major predator of lac, these was noticed a potential Predator reached peak second fortnight of April with 10.00 and 9.80 insect /30 cm lac sticks respectively, whereas *Chrysopa* sp. recorded as moderate predator, *Tachardiaephagus tachardiae* was recorded as major parasitoid these parasitoid reached peak First fortnight of April with 6.60 to 9.40 insect per 30cm of lac sticks, whereas *Eupelmus tachardiae* and *Aprostocetus purpurenu* as a minor parasitoid of baisakhi lac crop.

Keywords: Seasonal incidence, Lac insect, Natural enemies

REFERENCES

- Arora, S.P., Dureja, A.K., Kanoijia and Bambawale, O.M. (2009). Pesticide Their Classification Based on WHO and Global Status of Hazardous Pesticides National Centre for. IPM, LBS Building, Pusa Campus, IARI, New Delhi. pp110.
- Bhattacharya, A., Jaiswal, A.K., Kumar, S. and Kumar, K.K. (2006). Management of lepidopteran insect predators of lac insect through habitat manipulation. Entomon Trivandrum, India: *Association for Advancement of Entomology*. 31(1): 53-56.
- Bhattacharya, A., Jaiswal, A.K. and Singh, J.P. (2008). Management of lac insect predators through IPM based bioregional approaches. Emerging trends of researches in insect pest management and environmental safety,; 1(2): 221-226.
- Glover, P.M. (1937). Entomological aspects of lac research in India,; p 261-266
- Jaiswal, A.K., Bhattacharya, Kumar, A.S. and Singh, J.P. (2008). Evaluation of *Bacillus Thuringiensis* Berliner subsp. Kurstaki for management of lepidopteron pests of lac insect. *Entomon*, Vol. 33, pp: 1-5.
- Meshram, Y.K., Gupta, Rajeev and Joshi, Bhupesh (2017). Prevalence of Natural Enemies Associated with Lac Insect *Kerria lacca* Kerr. at Korba District of Chhattisgarh, *Trends in Biosciences* 10(48). : 9587-9590.
- Meshram, Y.K., Gupta, Rajeev, Banafar, K.N.S., Katlam, B.P. and Joshi, Bhupesh (2017). Management of prevalence of Natural Enemies, *Eublema amabilis* (Moore) by novel insecticides at Korba district of Chhattisgarh. *Journal of Plant Development Sciences*, 9(12):1131.
- Meshram, Y.K., Bhagat, P. K. and Devi, Payal (2018). Management of Prevalence of Natural Enemy, *E. amabilis* (Moore) by Novel Insecticides at Korba District of Chhattisgarh, India *International Journal of Current Microbiology and Applied Sciences*, Special Issue-7 pp. 732-737.
- Naraynan, E.S. **Pest of lac in India.** In: Mukhopadhyay, B., Muthana, M.S. (Eds.). (1962). A monograph on lac. Indian Lac Research Institute, Ranchi, India,; pp: 90-113.
- Paul, B., Kumar, S. and Das, A. (2013). Lac cultivation & their host trees found in Bastar Forest Division. *Plant Science Feed*,; 3(1): 8-12.
- Sharma, K.K., Jaiswal, A.K., Kumar, K.K. (2006). Role of lac culture in biodiversity conservation: issues at stake and conservation strategy. *Current Science*. 91:894-898.
- Si, Ming, W., C. You, Qing, Li, Qiao, Lu, ZhiXing, Liu, ChunJu and Guo, ZuXue (2010). The influence of ant-visiting *Kerria yunnanensis* on populations of *Holococera pulverea* in lac plantation. *Chinese Bull. Ento.*,; 47(4): 730-735.
- Singh, J.P., Jaiswal, A.K., Monobrullah, M. and Bhattacharya, A. (2009). Response of some selected insecticides on neuropteran predator (*Chrysopa lacciperda*) of lac insect (*Kerria lacca*). *Indian J. Agri.Sci.*,; 79(9): 727-731.
- Varshney, R.K. (1976). A check list of insect parasites associates with lac. *Orient Insects*, 10(1):55-78.

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