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RESEARCH PAPER

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Biology, feeding potential, standardization of mass production techniques and impact study of *Dipha aphidivora* Meyrick

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ABSTRACT

Experiments were conducted on the biology, feeding potential and standardization of the mass production of *Dipha aphidivora* Meyrick predator on sugarcane woolly aphid, *Ceratovacuna lanigera* Zehntner during 2005-2007, at Agricultural Research Station (ARS), Honnavile, Shimoga (district), Karnataka, India. The duration of the first instar was 2.5 to 3.5 days (average 2.95 ± 0.90 days). The average duration of second, third, fourth and fifth instar, pupal period, adult female and male moth lasted for 4.57 ± 1.33 , 8.30 ± 1.11 , 11.37 ± 2.96 and 6.10 ± 0.77 days, 8.50 ± 2.15 days, 4.5 ± 0.50 days, 1.5 ± 0.30 days, respectively and the total larval period lasted for 24.5 to 39.5 days. The daily consumption rate by *D. aphidivora* was 30.8 aphids per day. *D. aphidivora* or aphid multiplied faster on 7-month-old crop than 5, 6 and 8 month old crop. At the rate of 50 number of *D. aphidivora* pupae release, highest populations of 4230 per shade net *D. aphidivora* were harvested. Highest populations of *D. aphidivora* per shade net than irrigated once in two days with the population of 4123 *D. aphidivora* per shade net than irrigated once in week with the population of 1490 *D. aphidivora* per shade net. During the experiment, average temperature was 28°C and relative humidity was 78 per cent.

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