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RESEARCH ARTICLE:

Biology of cotton pink bollworm, *Pectinophora* gossypiella (Saunders) Lepidoptera: Gelechiidae

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SUMMARY: The biology of *Pectinophora gossypiella* was studied at three different temperature regimes of viz., 25 ± 1 , 30 ± 1 and $35\pm1^{\circ}$ C. The study revealed that the time taken for developmental stages was less with increase in temperature. At $25\pm1^{\circ}$ C, the incubation period, larval period and pupal period were 3.77 ± 0.78 days, 23.15 ± 3.23 days and 25 ± 0.55 days, respectively. While at $25\pm1^{\circ}$ C, the incubation period, larval period and pupal period were comparatively low (1.95 ± 0.51) days, 25 ± 1.96 days and 25 ± 0.47 days, respectively). The longevity of adult male was 20.0 ± 0.5 days at $25\pm1^{\circ}$ C and 2.57 ± 0.4 days at $25\pm1^{\circ}$ C, whereas female longevity was 2.5 ± 1.0 days at $2.5\pm1^{\circ}$ C and 2.5 ± 0.0 days at $2.5\pm1^{\circ}$ C. The total life cycle from egg to adult emergence was high at $2.5\pm1^{\circ}$ C (2.5 ± 0.51 days) and low at $2.5\pm1^{\circ}$ C (2.5 ± 0.51 days). The oviposition period was ranged from 2.57 ± 0.51 days and 2.57 ± 0.51 days) and low at 2.57 ± 0.51 days high (2.57 ± 0.51 days). The oviposition period was ranged from 2.57 ± 0.51 days at 2.57 ± 0.51 days and low at 2.57 ± 0.51 days). The oviposition period was ranged from 2.57 ± 0.51 days at 2.57 ± 0.51 days at 2.57 ± 0.51 days at 2.57 ± 0.51 days and low at 2.57 ± 0.51 days at 2.57 ± 0.51 days and low at 2.57 ± 0.51 days at 2.57 ± 0.51 days and low at 2.57 ± 0.51 days at 2.57 ± 0.51

KEY WORDS: Pink bollworm, Biology, Varied temperature regimes

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