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## Studies on biology of sugarcane leaf hopper, *Pyrilla perpusilla* (Walker) under laboratory

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**ABSTRACT**: Biology of pyrilla under laboratory condition revealed that the eggs were oval and laid in cluster on the under surface of leaves near midrib. Egg cluster length ranged from 12 to 18 mm and covered with white fibrils of wax. Freshly laid eggs were white in colour and turning pale yellow prior to hatching. The incubation period were recorded 7 to 9 (8 $\pm$ 0.4) days. Fecundity was recorded 600 to 800 with an average of 700 $\pm$ 44.7. The per cent hatching of eggs ranged from 79.2 to 93 (86.1 $\pm$ 3.0) per cent. The nymph passed through five nymphal instars to complete the nymphal stage. Total nymphal period ranged from 38 to 56 (47 $\pm$ 4) days. Nymphs were soft bodied possessing two anal filaments and they gradually increased in size and their colour also changed with an increase in size. *Pyrilla perpusilla* male and female adults both were almost similar only differ in their size and longevity. Female adults were found to be bigger and also longer longevity than male. Total life cycle of Pyrilla from egg to adult was completed within a period of 71 to 99 days with an average of 85  $\pm$  6.2 days.

Key Words: Sugarcane, biology, leaf hopper (Pyrilla perpusilla Walker).