



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Development, Survival and Reproduction of Three Coccinellids Feeding on
Hyalopterus pruni (Geoffr) (Homoptera: Aphididae)

Remzi ATLIHAN, M. Bora KAYDAN
Yüzüncü Yıl University, Faculty of Agriculture, Department of Plant Protection, 65080
Van - TURKEY

 [Keywords](#)
 [Authors](#)



agric@tubitak.gov.tr

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Abstract: The development, survival and fecundity of three aphidophagus coccinellid species, *Scymnus apetzi* (Mulsant), *Scymnus subvillosus* (Goeze) and *Exochomus nigromaculatus* (Goeze), were studied under laboratory conditions (25 ± 1 , $65 \pm 5\%$ RH and 16 L/8D). Development time from egg to adult was 20.4, 17.1 and 16.7 days for *S. apetzi*, *S. subvillosus* and *E. nigromaculatus*, respectively. Mortality rate from egg to adulthood was highest for *S. apetzi* (37.9%) followed by *S. subvillosus* (36.3%) and *E. nigromaculatus* (25.7%). Duration of the oviposition period was 58.6, 64.9 and 75.3 days, and the total number of eggs per female was 492.8, 224.9 and 428.5 for *S. apetzi*, *S. subvillosus* and *E. nigromaculatus*, respectively. According to the life table parameters, net reproduction rate per female (R_0), the intrinsic rate of increase (r_m), and mean generation time (T_0) were 137.5, 0.121 and 40.7 for *S. apetzi*; 69.9, 0.110 and 38.3 for *S. subvillosus*, and 157.2, 0.134 and 37.7 for *E. nigromaculatus*. The results obtained here provide information about the biology of three coccinellids that might be useful for the utilization of these predators in IPM programs against *H. pruni*.

Key Words: *Scymnus apetzi*, *Scymnus subvillosus*, *Exochomus nigromaculatus*

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