

Hussein, S. A. H. and **Abd El- Gayed , A. A.**(2008): Host preferences of the hawaiian beet webworm, *Hymenia recurvalis* Fab. (Lepidoptera: Pyralidae). *Egypt J. of Agric Res.*, 86(2): 531-540.

The present work was carried out at Faculty of agriculture, Fayoum Univ. under laboratory conditions ($25\pm 2^{\circ}\text{C}$ and $68 \pm 5\%$ R.H.). The obtained results are summarized as follow:

Third instar larvae of *Hymenia recurvalis* (Fab.) preferred 6 hosts namely; nettle leaf, wild beet, table beet, spinach, sugarbeet and pigweed. Percentages of attracted larvae on these hosts showed 24.3, 18.5, 17.7, 15.0, 13.7 and 10.5%, respectively. The respective attraction on hosts for egg laying were on table beet, spinach, sugarbeet, wild beet, nettle leaf and pigweed. Hawaiian beet webworm, *H. recurvalis* complete its life cycle on all hosts with significant differences in parameters especially pre oviposition period and rate of egg deposition /♀. Lowest period and highest rate were recorded on nettle leaf.