

- Project Title** : Investigations on The Description, Distribution, Biology and Natural Enemies of The Olive Gall Midges [*Lasioptera berlesiana* Paoli (Dipt.:Cecidomyiidae)] in Izmir (Turkey)
- Start /End Date** : 1995-1997
- Supporting Body** : GDAR
- Leader** : Dr. Bahriye HEPDURGUN
- Co-researchers** : Prof. Dr. Fevzi ÖNDER
- Summary** : This research was carried out with in the years of 1995-1997 in İzmir. Description studies of the insect was studies of the insect was studied under laboratory conditions whereas its biology were conducted in Bornova and Urla under Field conditions. In addition, duration of the biological stages of this insect, the population fluctutations of the eggs and larvae and the distribution of the insect around İzmir were determined.
- As for the result of the surveys, it was found that *L. berlesiana* was entirely subjected to the population density of olive fruit fly [*Bactrocera oleae* Gmel. (Dipt.: Tephritidae)]. *L. berlesiana* produced 3 generation in 1996 and 4 generations in 1977, both in Bornova and Urla.The adult life duration is 1-3 days. Incubation period of the egg was found to be 1-2 days. Larval stage lasted 9-13 days. Formation of cocoon and pupal life were determined to be 1-2 and 8-12 days, respectively. Male/female ratio was 1:2. Days *Platygaster* sp. (Hym.: Platygasteridae) was determined to be larvae-pupae parasite of the insect. It has been also found that *L. berlesiana* was not a vector of the fungus, *Macrophama dalmatica* (Deuteromycetes).
- As for the result, it was found that *L. berlesiana* is the reason of the crop losses of economic importance by causing early dropping of the fruits, reduces the oil and pickling peculiarities of the olve fruits.