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**COMPLEMENTARY INVESTIGATIONS ON BIOLOGY AND
CONTROL METHOD OF *Polyphylla olivieri* CAST. IN KARADJ
(TEHRAN VICINTY) DURING 1978 - 1982¹**

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SUMMARY

The larvae of this insect feed on the root of fruit trees (cherry, pear, peach, apricot, apple, pomegranate and quince) and a group of other cultivated and non cultivated plants .

According to reports, this insect is found in almost all fruit growing parts of IRAN.

Our investigations confirm those of other researchers who found out its life cycle to be completed in three years. The adults appear from mid June till mid August. The flight peak coincides the first half of July. About 30% of females attracted to light traps still have their eggs in the body. The mated female lays its eggs in the wet and light soils at the depth of 5 - 7 centimeters.

The first newly - hatched larvae appear during August. According to our observations the larvae move continuously in the soil between the depths 15 and 50 centimeters. Temperature and food are the main factors influencing these movements.

Among the non persistent insecticides tested in soil including Diazinon,

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Furadan, Dursban and Lindane, we found out that emulsion of Diazinon when used at a rate of two litres of active ingredient per hectare is the most effective in controlling the larvae. To obtain better results it is necessary to irrigate the soil before and after adding the insecticide to the soil. The second irrigation should be a light one.

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