

Research on Biology of *polysarcus elbursianus* in Nesa region (Karadj)

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ABSTRACT

This long horn grasshopper has one generation a year and spends the summer, autumn and winter as egg in the soil under the host plants, in high altitudes. First nymphal stage appear in mid April and after completing five nymphal instars, the insect changes to adult (from early June). In Nesa region and in southern slopes, nymphal period lasts about 53 days and longevity of adult is about 23 days. This insect is polyphagous and feeds on several plants. Length of different developmental stages in Nesa region and in rearing cages, behaviour of nymphs and adult, host plants, oviposition sites characteristics and other biological features have been investigated.

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