**Psalmocharias alhageos** Kol (Hom.: Cicadidae)

**Effect of thiamethoxam insecticide on vine cicada, *Psalmocharias alhageos* (Hom.: Cicadidae)**

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Vine cicada, *Psalmocharias alhageos* (Hom.: Cicadidae), is one of the most important pests of vine trees in Iran. Main damage of *P. alhageos* is caused by long feeding of nymphs on the vine roots and laying eggs of females under the bark of the shoots. In the present study, in 2008-2011 years, the effect of different formulations of imidacloprid were tested by soil application, with four replications, in Qom and Markazi regions. The treatments were compared considering grape vine yield and the number of pupal exuviae under vines and. Based on results, soil application of imidacloprid (15-20 ml at each vine tree) at nymph’s emergence time from soil was effective in decreasing vine cicada damage and increased grape vine yield. So, efficacy of Iraninan formulation imidacloprid was less than foreign imidacloprid (Confidor®, Sc350).