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Identification of leaf miner flies of Agromyzidae and their parasitoids in Sistan region

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Abstract

Agromyzidae family of Diptera is one of the large and important group of secondary pests of ornamental plants and greenhouse products. Insects of this family have been a number of parasitoids, including two families Eulophidae and Pteromalidae that is in Iran. The little studies have been done about their systematic, but no any study in Sistan region. Leafminers and their parasitoid wasps were collected and identified. Sampling was collected in the years 2009-2010. Out of 200 samples collected from over 35 different plant species, Eight genus-related Diptera Agromyzidae leafminer two subfamily Agromyzinae and Phytomyzinae and nine genus of parasitoid wasps leafminer flies Including families Eulophidae (Tetrastichinae, Eulophinae, Entedoninae) and Pteromalidae (Miscogasterinae) were introduced for Sistan fauna. Among the five genera and eight species of the family Agromyzidae, nine genera and 14 species of parasitoid wasps of leafminer flies introduced for Sistan fauna. Between the two genus names *Phytoliriomyza* Siebke *Apotetrastichus* Graham and three species names *Phytoliriomyza dorsata* Siebke, *Melanagromyza cunctans* Meigen and *Chromatomyia nigra* Meigen obtained for the first time of Iran fauna and two species including *Pediobius matallicus* and *Sympiesis acalle* activities on some genera of their leafminer hosting that were not reported before from Iran.

Keywords: Leafminer flies, Systematic, Parasitoid, Diptera, Agromyzidae and Sistan fauna.