

Study on biology and damage of pistachio bugs in Kerman province

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Harmful pistachio bugs are the most important pest in Kerman province such as the species *Brachynema segetum*, *B. germari*, *Acrosternum millieri*, *A. haegeri* and *Lygaeus panderus* with 3-5 generation and *Apodiphus amygdali* one generation per year and these over winter as adult. The damage of these bugs in relation to phenology and the growth stage of pistachio is as follows:

In the first stage from fruit forming to hardening of shell; feeding caused browning and darkening of hull and finally dropping. This damage is termed Epicarp lesion. In the second stage from hardening of shell to kernel forming and ripening; the bugs produce necrotic spots known as kernel necrosis. Bugs in this stage are able to transmit *Nematospora coryli* which cause estigmato mycosis.

In this study about 25 species belonging to family; *Pentatomidae*, *Lygaeidae*, *Miridae*, *Reduviidae* and *Coreidae* were collected from *Pistachia vera*, *P. mutica* and weeds within and around of pistachio orchards. Also, two species of hymenopterus parasitoid *Trissolcus spp* and *Ooencyrtus telenomicida* from eggs of *Brachynema spp* and *Acrosternum spp* were recorded.