Title The effect of lygus bugs (*Exolygus prantensis* L.) on marketing price of red lentil in Anatolia, Turkey

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Abstract

The aim of this study was to assess the damage commonly known as chalky spot syndrome caused by the lygus bug on red lentil and the negative relation to the resulting marketing price in the commodity market of Sanliurfa, Turkey. Analysis showed that there was significant difference among the content (%) of chalky spot damage (range 1.45–29%) of lentil samples collected from the farmers who brought their crops to sell in the commodity market and this was negatively related to the market price that farmers received. Marketing prices of samples were also found to be significantly affected. The correlation between visually inspected chalky spot damage (%) and that of decorticated and weighted lentils was found to be positive and significant. Marketing prices also were found to be negatively correlated with the results of both inspection methods. Further analysis indicated that regression equations could be used for price estimation of lentil with different ratios of chalky spot. It was concluded that 10% chalky spot can reduce the marketing price from 0.426 to 0.396 \$ kg^{-1} when visually inspected and from 0.438 to 0.358 \$ kg^{-1} when decorticated.