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Annals of Biological Research

Abstract

[The effect of intercropping and defoliation on yield and yield](#)

[components of two maize](#)

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To study the effect of intercropping and defoliation on yield and yield components of two maize species, the factorial field experiment was done with completely randomized block design three times, in research field of Islamic Azad University Varamin – Pishvabbranch in 2012. The field situation was 31', 51 to the east in length, 20, 35 to the north in width and 1050 m latitude above sea level and its area was 1270 m square. The main factor of the intercropping and secondary factor of defoliation were studied in 5 (net amount of single cross 704, 75 to 25, 50 to 50, 25 to 75, net amount of 400) and 3 (non-defoliation, 33% defoliation, 66% defoliation) levels, accordingly. Also, data were calculated through SAS software and mean comparison of agronomical characteristics was done through Duncan method in the level of %5. Yield, grain number per row, row number per ear, 1000 grain weight and total amount of grains in the ear were characteristics in study. The results of the study showed that all measured characteristics were punctuated statistically in the level of %1, in exception with some reactions which showed small differences, although they were not punctuated. The most yield, 9.725 ton in hectare, was obtained through non-defoliation of 704 in monoculture single cross which is the indicative of high amount of yield in varieties and imbalance of source and sink.

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