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Effect of Yield, Yield Components and Seed Quality of Intercropping Soybean Cultivars in Gaem Shahr Weather Conditions

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Abstract

In order to evaluate soybean cultivars competition, an experiment was conducted as complete randomized block design with four replications at GaemShahr Agricultural Research Centre of Mazandran Province in 2009. Two cultivars (032 and sari) were row intercropping (4:0, 3:1, 2:2, 1:3, 0:4) planted using the replacement method. The results indicated that the greatest height of protein and oil percentage was obtained by 032 and Sari pure stands respectively. Also, the 2:2 planting ratios were recorded to produce the highest number of branch, number of pod per plant, number of seed per plant, and seed yield. Statistical analysis of LER revealed that seed yield in treatment 2:2 was 19 % higher than the pure stand. Eventually, the results of this study indicated that the impact of soybean cultivars in intercropping was of the mutual cooperation type.

Keywords: *Pod, Planting ratio, LER, Mutual cooperation*

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