

عنوان مقاله:

Yield analysis of bread wheat under saline conditions using some statistical procedures

محل انتشار:

مجله علمی علوم بیولوژیکی، دوره 3، شماره 4 (سال: 1393)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

Study on the interrelationships between yield and related yield traits will improve the efficiency of breeding programs through the use of appropriate selection indices. In this research, the relationship among wheat seed yield and its contributing components under salt stress condition were investigated by using three statistical procedures including; principal components, factor analysis and cluster analysis. The experiment was conducted under saline field conditions based on randomized complete block design with three replications. Electrical conductivity of irrigation water was 10ds.m⁻¹. Results indicated that biological yield, plant height and chlorophyll content were the most effective variables influencing seed yield. Based on the results, it seems that high yield of wheat plants under saline field conditions can be obtained by selecting breeding materials with high biological yield, harvest index and chlorophyll content.

کلمات کلیدی:

Salt stress, Bread wheat, Factor analysis, Principal components, Cluster analysis

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