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/ \hat{i} b	/ \hat{i} b	/ cde	/ $\bar{d}cde$	/ cd	/ $\bar{d}ef$	/ def	\hat{i} / $\bar{d}bc$	
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/ $\bar{d}b$	/ $\bar{d}b$	/ \hat{i} def	/ bcd	/ de	\hat{i} / b	\hat{i} cd	\hat{i} / bc	
/ bcd	\hat{i} bc	/ efg	\hat{i} \hat{i} ef	/ cd	/ cdef	/ def	/ cde	
/ \hat{i} cd	\hat{i} \hat{i} bc	/ i	/ bcd	/ $\bar{d}de$	/ ef	/ ih	/ fg	19R/A
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/i/ s-y	/ö ^{l-v}	/ v-	/i/ n-u	/	/ m-r	/ p-u	/ r-z	
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/ j-r	/ö ^{e-o}	/ h-q	/ö ^j	/ def	/i/ i ^{b-n}	/ g-n	/i/ i ⁿ	
/ l-u	/ h-r	/ p-	/ d-n	/ö ⁿ	/i/ b-o	/i/ p-y	/ n-v	
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/ l-w	/i/ n-x	/ g-o	/ k-t	/ j-p	/i/ pqr	/ g-m	/ m-t	
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Evaluation of the Using of Rice Genotypes Response to Salinity Stress at Seedling Stage in Hydroponic Culture

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Abstract

In order to evaluate the interaction of rice genotypes to salinity stress, responses of 16 rice genotypes were assessed to 4 salinity levels (0, 4, 8, 12, dS/m) through a split plot experiment seedling stage in hydroponic culture. In this experiment characters such as plant height, leaf area, root length stem length, dry weight of root and stem, dry weight of leaf and total biomass were measured. All the characters in reaction to salinity showed significant. And correlation coefficient of seedling stage had all the characters positive and significant differences. At seedling stage, total biomass proved to be the trait of choice for assessing the tolerance among cultivars as well as treatments. Total biomass of the PSBRC88 variety was decreased about 42% compared to control. Whereas this decrease for Shafagh was 26%. Also Nemat A/19R had the most decrease compared to control (81%). The decrease of stem dry weight of PSBRC88 variety at 12 dS/m salt level was less than other varieties with comparison to control (about 23%). The most decrease in stem dry weight of was for IR60819R/IR58025A by 86% relative to control. The decrease of leaf area in Gerdeh variety was less than other varieties with comparison to control (about 61%).

Keywords: Rice, Hydroponic culture, Salt tolerance, Seedling, Total Biomass, Coefficient correlation

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