Dogan R, Kacar O, Coplu N, Azkan N (2009) Characteristics of New Breeding Lines of Triticale. African Journal of Agricultural Research 4:133-138.

Abstract

The objective of this study was to develop new cultivars of triticale possessing high yield and quality which would be adaptable to ecological conditions of Marmara Region. For this purpose, seven selected lines from breeding programs conducted previously and one standard cultivar were used as plant entries of the research. Yield and yield components were taken up to determine the best lines to be candidate for future varieties. Field experiments were conducted on the Research Center of Agriculture Faculty, Uludag University, Bursa, during 2004 - 2005 and 2005 - 2006 growing seasons. A randomized complete block design with three replications was chosen for experimentation. ANOVA of two-year results indicated that differences among genotypes were significant for grain number/spike, grain weight/spike and hectoliter weight. Genotype x year interaction was found to be significant for grain number/spike, grain weight/spike and grain yield. There were no significant differences among genotypes in term of their grain yield. This means that the new lines produced grain yield at par with the standard cultivar used in this experiment. Yields of the genotypes ranged between 6512 and 7133 kg ha- 1. As a result of correlation analysis, simple correlation coefficient analysis revealed that there had been positive and significant correlations of grain yield with the grain number/spike, grain weight/spike, plant height and hectoliter weight.