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Abstract

This research was carried out at an experimental field at the Field Crops Department of the Faculty of Agriculture at Uludag University. A randomized complete block design with three replications was used under the Mediterranean-type environment of Turkey during the 2004-2005, 2005-2006 and 2006-2007 growing seasons. Thirty six triticale lines were used as the experimental material of the study. The objectives of this study were to compare the grain yields and other yield components of triticale, such as plant height, spike length, number of spikelets per spike, number of grains per spike, grain weight per spike, spike number per m^2, 1000-grain weight and test weight. According to the mean results for the three years, significant differences among the lines were obtained in regard to plant height, spike length, spike number per square metre, 1000-grain weight, test weight and grain yield. Plant heights ranged from 98.7 to 135.8 cm. The shortest lines were C1 and C13 and the longest line was 14x2-3. Grain yields among the lines had a range of 5475-7196 kg ha^{-1} with the highest grain yield in line 13x2-3 and the lowest grain yield in line 14x1-1.