

Çifci EA, Yağdı K (2010) The research of the combining ability of agronomic traits of bread wheat in F1 and F2 generations. U.Ü.Ziraat Fakültesi Dergisi 24(2):85-92.

Abstract

This study was carried out between 2004-2007 vegetation periods at the experiment fields of Uludağ University Faculty of Agriculture, Agricultural Application and Research Center. In this study 5 advanced breeding lines and 3 bread wheat cultivars that have adapted to the region and their F1 and F2 crosses that have been obtained by Line x Tester crossing of these have been used as material. In the research, the plant height, spike length, number of spikelets/spike, number of grains/spike, grain weight/spike and 1000 kernel weight were researched for combining abilities. According to the traits in both F1 and F2 generations show that non-additive gene effects play a role on the heredity of these traits. For most of the researched traits, appropriate parents and crosses were determined for all the traits, this shows that this cross population can be used to obtain desired bread wheat for future generations.