

Çifci E A, Yağdı K (2007) Heterosis for certain yield and quality traits in winter triticale. Akdeniz Üniversitesi Ziraat Fakültesi Dergisi 20(1): 83-86.

Abstract

This research investigated heterosis for certain yield and quality traits in F1 hybrids in winter triticale. The highest level of mid-parent heterosis was determined as 20.95 % for seed weight per spike. This was followed by mean mid-parent heterosis values at the rates of 18.07 % and 17.64 % for protein content and spike length, respectively. Negative mid-parent heterosis was determined in falling number and plant height with the mean values of – 7.09 % and – 3.93 %, respectively. When the hybrids were evaluated individually, it was determined that the traits other than protein content exhibited positive or negative heterosis, whereas for protein content, heterosis was always positive. The fact that some hybrids overran their superior parents with respect to high-parent heterosis indicated that hybrid breeding could successfully be applied in triticale.