ASSESSMENT OF EARLY GENERATION PERFORMANCES OF DURUM WHEAT (*Triticum durum* L. Desf.) MUTANT LINES

O. BİLGİN[1] ✉, İ. BAŞER, K.Z. KORKUT, A. BALKAN
Namık Kemal University, Agricultural Faculty, Field Crops Department,
59030 Tekirdağ-TURKEY. [1)]
✉Corresponding author: oguzb@tu.tzf.edu.tr,

SUMMARY

A total of 96 mutant lines were sown in augmented design with 4 check varieties without replications in 6 blocks. When mutants and control genotypes in the M_5 generation were investigated for six characters, a considerable number of mutants within the desired characters were obtained. Application of mutation doses resulted in significantly short genotypes among the selected mutant genotypes in the M_5. The majority of M_4 mutant lines had suitable genotypes in terms of plant height and heading, test weight and a thousand kernel weights.

Keywords: Mutation, augmented experimental design, durum wheat, yield, plant height, variability.