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## The genotype X environment interactions in wild sunflower species (*Helianthus L. spp.*)

**N Dağüstü**

Uludağ University, Turkey

The field trials were conducted for four years (2014 and 2017) to determine the genotype X environment interactions in some wild sunflower species in terms of morphologic and phenologic characters at the Research and Training Centre of the Agricultural Faculty, Uludağ University, Bursa, Turkey. The 26 wild sunflower genotypes supplied from different sources (USDA-America; Germany, Canada) were used in the study. One month seedlings germinated with mechanical drawing application in a 1:1 portion soil and peat mixture violin were grown in field conditions. Some of the morphologic (plant height, head diameter, number of leaves per plant, stem thickness, number of branches) and phenologic (ray flower color, head angle, head shape, uniformity of flowering, uniformity of maturity, bract shape, pollen fertility, pubescence at general appearance, disk flower color, petiole position, branching, type of branching) characters were observed and measured for four years. The majority of the morphologic characters were influenced by genotype year and genotype X year interactions while there was no clear difference within observed phenological characters.

ndagustu@uludag.edu.tr