**DETERMINATION OF MORPHOLOGICAL AND PHYSIOLOGICAL DIFFERENCES OF 6 DIFFERENT LOCAL WHEAT VARIETIES**

**Murat ARDIÇ 1**\*

1*Eskişehir Osmangazi University, Department of Biology, Art and Science Faculty, 26480, Meşelik, Eskişehir-Turkey*

In this study, the differences of some physiological and morphological parameters of 6 different local wheat (*Triticum aestivum* L.) genotypes grown under controlled conditions in Eskişehir Osmangazi University Ecophysiology laboratory were revealed and evaluated. These genotypes are Bezostoya, Sönmez, Yunus, Dumlupınar, Naci Bey and Müfit Bey respectively. The examined physiological and morphological parameters are; chlorophyll a, chlorophyll b, total chlorophyll, SPAD, Leaf fresh weight, leaf dry weight, turgor weight, root dry weight, root fresh weight, leaf area, root length, leaf water holding capacity, stem fresh weight, stem dry weight and stem length. All obtained data from measurements were statistical analyzed by Minitab program. Looking at the results, the best results are observed in Bezostaja, Dumlupınar, Sönmez, Naci Bey, Müfit bey and Yunus varieties.

**Keywords:** Wheat, Ecophysiology, Morphological Parameters, SPAD