

**O 128. SOME DURUM WHEAT (*Triticum durum* L.) GENOTYPES DETERMINATION OF
COMBINATION OF SKILLS IN THE DIFFERENT NITROGEN ENVIRONMENT**

Meltem Yaşar¹, Ali Topal²

¹*Bahri Dağdaş Uluslararası Tarımsal Araştırma Enstitüsü,*

²*Selçuk Üniversitesi, Konya, Turkey*

E-mail: meltem__yasar@hotmail.com, atopal@selcuk.edu.tr

ABSTRACT: Nitrogen has an important place in the plant nutrients, which is essential for plants, because of its location in plant metabolism and its specific situation in the soil. Nitrogen is used as a basic building block in plant nutrients, so it is important to have enough nitrogen in the soil to get optimum yield. However, in order to achieve this situation, it is obvious that the use of excess nitrogen fertilizers has negative effects on both plants and the environment and human health. In order to minimize the negative effects of nitrogen in recent years, scientists have needed to research the nitrogen sources that can provide the necessary nitrogen at the time they need plants and eliminate or minimize the losses. One of the most important factors to be taken into consideration in these studies is the method of investigating the varieties with high nitrogen utilization efficiency, low growth rates and high yield and quality. In this research; 30 durum wheat hybrid combinations, which were formed by crossing 10 main lines and 3-line lines as line-testers, were planted with 3 replications separately in nitrogen sufficient and insufficient environments in central location of Konya. Combination capabilities have been determined from the materials identified to give high efficiency in inadequate environments.

Keywords: Durum wheat, Nitrogen utilization efficiency, Yield