

# EFFECT OF WATER STRESS ON YIELD COMPONENTS OF IRANIAN WHEAT LANDRACES UNDER IRRIGATED, RESTRICTED IRRIGATED AND RAIN-FED CONDITIONS

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**Abstract:** Drought stress is one of the most important environmental factors that retard the formation of the yield components which are most actively developing at the time of stress which results in 17% to 70% of grain yield. The aim of present study was to investigate the effect of water stress on morphological traits of 27 Iranian landraces along with commercial relevant checks under irrigated, restricted irrigated and Rain-fed conditions. These lines were selected on the basis of minimum reduction of vigor index under water stress induced by Polyethylene glycol (6000) as compared to control lines. A field experiment was carried out at experimental area of Department of Plant Breeding & Genetics, Punjab Agricultural University Ludhiana, Punjab during 2016 with three replications. On the basis of performance of Iranian lines under field conditions these three lines IWA 8600064, IWA 8600179 and PETERSON ML68-10 are considered as water stress tolerant.

**Keywords:** Drought stress, Iranian landraces, Yield parameters

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