

EFFECT OF WATER STRESS ON PRE-HARVEST CHARACTERS OF IRANIAN WHEAT LANDRACES UNDER IRRIGATED, RESTRICTED IRRIGATED AND RAIN-FED CONDITION

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Abstract: Water stress is one of the most important abiotic stresses which severely affect plant growth and yield. With a view to understand the effects of drought stress on pre harvest components of wheat cultivars under field conditions, the present investigation was carried in the Department of Plant Breeding and Genetics with three replications under Randomized Block Design. Set of selected Iranian landraces from the preliminary screening experiment with the help of Polyethylene glycol (6000). Landraces were selected on the basis of vigor index and planted in the field along with commercial relevant checks in three environments Irrigated, Restricted irrigated and Rain-fed. Data of days to germination, flowering, maturity, plant height and tillers per meter row length were recorded. On the basis of performance, IWA 8600796, IWA 8600179, IWA 8606333 and IWA 8606258 considered as water stress tolerant. Identified landraces can be included in future breeding programmes for the wheat improvement for drought prone areas.

Keywords : Water stress, Iranian wheat landraces, Pre-harvest characters

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