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Triticum aestivum L. varietal accession evaluation under low fertility and two irrigations

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ABSTRACT : The experiment consisted of 9 treatments viz., T₀ (DBW -17), T₁ (Raj 3077), T₂ (HD 2967), T₃ (Lok-1), T₄ (Raj 1482), T₅ (Raj 4120), T₆ (K-65), T₇ (HD 2967), T₈ (PBW-343) laid out in Randomized Block Design with three replications. The study showed that Lok-1 variety gave highest grain yield (2.76t ha⁻¹), harvest index (31.15%), highest net income (Rs. 110,000.7 ha⁻¹) and benefit: cost (3.74) then the rest of the varieties. The plant height was found to be the highest under the treatment T₃ (Lok-1) at 30, 60 and 90DAS the differences were statistically significant. Treatment T₁ (Raj 3077) recorded significantly higher number of effective tillers per meter square than all the other treatments, while the lowest number of effective tillers per meter square was recorded for the treatment T₃ (Lok-1). The spike length was recorded to be highest under the treatment T₃ (Lok-1) which was significantly higher than all these other treatments, while the lowest spike length was recorded under the treatment T₅ (Raj 4120). Number of grains spike⁻¹ was recorded to be highest under the treatment T₆ (K-65), while the lowest grains spike⁻¹ was recorded under the treatment T₀ (DBW-17). Treatment T₂ (HD2967) recorded significantly higher test weight than all the other treatments, while the lowest test weight was recorded under the treatment T₈ (PBW-343). The highest grain yield was recorded under the treatment T₃ (Lok-1), while the lowest grain yield was recorded in treatment T₀ (DBW-343) and the differences were statistically non-significant.

KEY WORDS : CGR, MOP, RGR, SSR, Harvest index, NS

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